

# UNCLASSIFIED

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**Final**  
**Bibliography of Reports**  
**Prepared Under Contract No. AF 04(695)-469**  
*(Period Covering 1 July 1964 Through 30 June 1965)*

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**31 DECEMBER 1965**

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*Prepared for* **COMMANDER SPACE SYSTEMS DIVISION**  
**AIR FORCE SYSTEMS COMMAND**  
**LOS ANGELES AIR FORCE STATION**  
*Los Angeles, California*



**AEROSPACE CORPORATION**

Report No.  
CSR-469(9990)FBR-1

FINAL  
BIBLIOGRAPHY OF REPORTS  
PREPARED UNDER CONTRACT NO. AF 04(695)-469  
(Period Covering 1 July 1964 Through 30 June 1965)

Compiled by  
D. A. Charland

AEROSPACE CORPORATION  
El Segundo, California

31 December 1965

[Supersedes CSR-469(9990)QBR-1 dated 30 November 1964,  
CSR-469(9990)QBR-2 dated 30 January 1965,  
CSR-469(9990)QBR-3 dated 30 April 1965, and  
CSR-469(9990)QBR-4 dated 31 July 1965]

Contract No. AF 04(695)-469

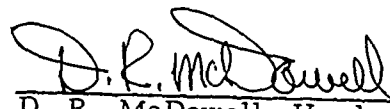
Prepared for  
COMMANDER SPACE SYSTEMS DIVISION  
AIR FORCE SYSTEMS COMMAND  
LOS ANGELES AIR FORCE STATION  
Los Angeles, California

Report No.  
CSR-469(9990)FBR-1

FINAL BIBLIOGRAPHY OF REPORTS  
PREPARED UNDER CONTRACT NO. AF 04(695)-469  
(Period Covering 1 July 1964 Through 30 June 1965)

Compiled by  
D. A. Charland

Approved by

  
D. R. McDowell, Head  
Information Support  
Services Department

AEROSPACE CORPORATION  
El Segundo, California

## FOREWORD

This final bibliography supersedes and replaces the following quarterly bibliographies:

CSR-469(9990)QBR-1	dated 30 November 1964
CSR-469(9990)QBR-2	dated 30 January 1965
CSR-469(9990)QBR-3	dated 30 April 1965
CSR-469(9990)QBR-4	dated 31 July 1965

This bibliography lists all reports published during the period 1 July 1964 through 30 June 1965 under Contract AF 04(695)-469, in accordance with the requirements of SSD Exhibit 64-1. Reports whose identification is prohibited by their sensitive nature are listed by report number only. Reports initiated and written under this contract are identified by the inclusion of the "469" element in the report number; reports initiated under previous contracts--but reissued or added to by supplements or volumes under this contract--are identified by the same report number (with an appropriate modifying designation) as the parent report (see Section I).

## Section I

### AEROSPACE CORPORATION REPORT NUMBERING SYSTEM

SSD Exhibit 64-1 (1 July 1964) establishes the contractual requirements for reports generated by Aerospace Corporation on programs under Air Force Systems Command cognizance. This exhibit defines the various types and categories of reports, standardizes formats and other necessary practices, and directs the contractor as to his privileges in exchange of reports.

Basically, Exhibit 64-1 provides for professional papers and three main categories of reports:

1. Contract Status Reports (CSR) (program progress reports, red flag reports, bibliography reports)
2. Technical Operating Reports (TOR) (flight and other types of test data, detailed test objectives, engineering analyses, etc.)
3. Technical Documentary Reports (TDR) (scientific and technical records of research and development efforts, may be definitive or exploratory, factual or problematical, general or specific)
4. Professional Papers (PP) (articles which identify the author as an employee of Aerospace and which are prepared for possible publication in non-profit scientific and professional journals and/or for presentation).

The Aerospace report numbering system is designed for compatibility with the requirements of Exhibit 64-1, and to provide report numbers that have a definite significance and meaning for identification, collection, storage, and retrieval purposes. This numbering system incorporates five significant factors:

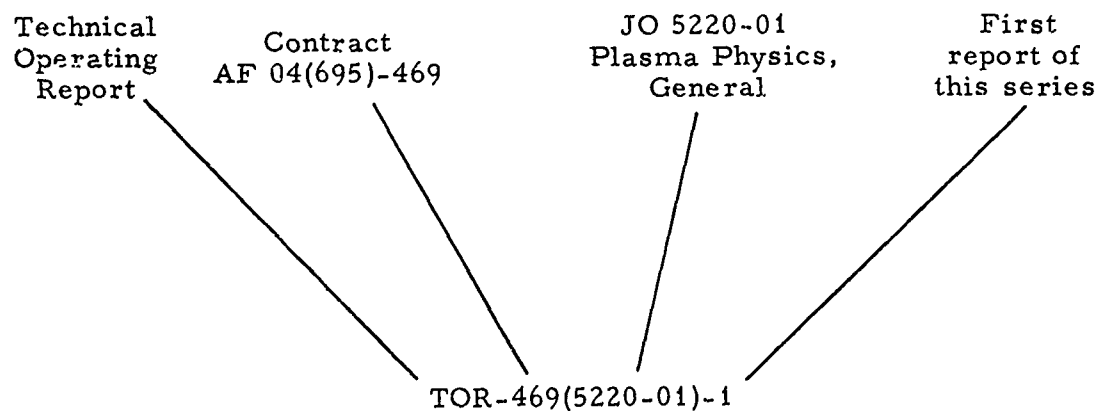
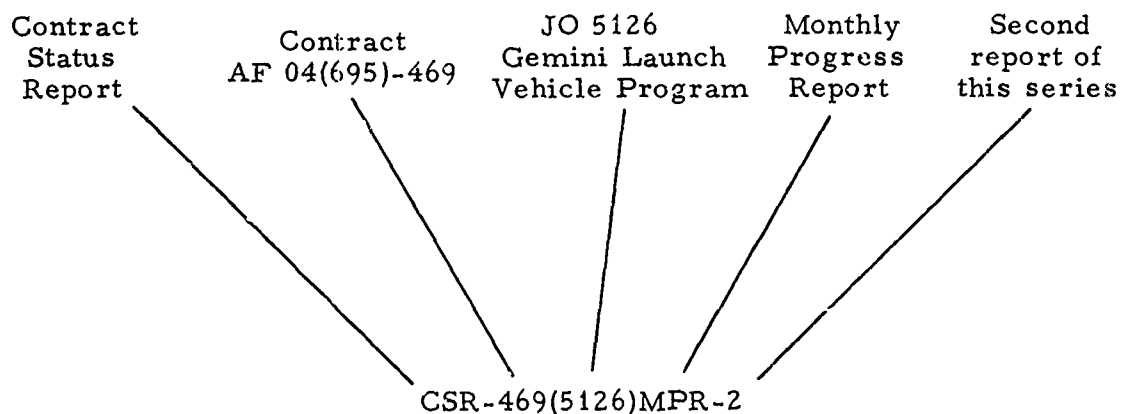
1. Letter symbols indicating the type or category of the report (e. g. , CSR, TOR, TDR).
2. A number representing the contract [e. g. , -469 represents Contract AF 04(695)-469]. \*

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\* Reports initiated under previous contracts (e. g. , AF 04(695)-169, -269) but reissued, or added to by supplements or volumes, under the present contract include the previous contract element (e. g. , "-169", or "-269") in the report number (see Section VII).

3. Job Order numbers indicating the task or project for which the report is prepared. \*\*
4. Letter symbols designating the series which the report represents (e. g. , MPR, Monthly Progress Report; MS, Monthly Summary).
5. A number indicating the sequence of the report within its series (e. g. , -1, -2, -3, etc. ).

Examples of Aerospace Report Numbers



\* The letter A or S preceding the Job Order number indicates a report originated by Eastern Test Range or the San Bernardino Operations, respectively.

## Section II

### ORGANIZATION OF BIBLIOGRAPHY

Information listed in the bibliography is sectionalized in five categories:

1. Contract Status Reports
2. Technical Operating Reports
3. Technical Documentary Reports
4. Professional Papers
5. Other Reports.

Page entries contain the following information:

1. Aerospace report number
2. Title
3. Author
4. Publication date
5. Classification - Security classification codings used are TS (Top Secret), S (Secret), C (Confidential), U (Unclassified), RD (Restricted Data). In addition, reports classified as limited distribution by Aerospace Corporation are coded LD.

Professional Paper entries contain the following information:

1. Title of report
2. Journal in which published, or meeting at which paper presented.
3. Author
4. Clearance date of paper
6. Classification.



In this bibliography, Aerospace Corporation reports grouped in each sectional category are listed in numerical order by Job Order number and by series (see Section I). To facilitate use of these sequential listings, a Job Order Index, identifying Job Order numbers with major subject areas, is included in this section. Subject areas whose identification is prohibited by their sensitive nature are listed by Job Order number only. Professional Papers are listed by the authors' names in alphabetical order. In addition, the Professional Paper section contains a listing of papers for which reprints are available.

Job Order

2113	Program 479A
3110	Satellite Control Program
3116	Program 624A
3152	Program WS 325A - MMRBM
4106	Vela Satellite Program
4107	MOL Program
4110	Satellite Control
4116	Program 624A
4123	
4126	Project Gemini
4128	Program 461
4304	Booster and Other Subsystems Technology
4710	Space Weapons and Weapons Effects
4805	Program WS 325A - MMRBM
4810	Program 627A (ABRES)
4853	Engineering Technology - Reliability
4921	Systems Research and Planning Operations - Ballistic Missile Systems
5101	
5102	
5103	
5105	
5106	Vela Satellite Program
5107	MOL Program
5108	Program 680A
5109	
5110	Satellite Control
5111	Program 572
5112	Gravity Gradient Test Satellite
5113	
5116	Program 624A

Job Order

5118	Program 698CG
5120	
5126	Project Gemini
5128	Program 461
5181	Standard Launch Vehicle II
5182	Standard Launch Vehicle III
5183	Gemini Agena Target Vehicle System Program
5210	Propulsion Research
5220	Plasma Research
5230	Electronic Research
5240	Aeromechanics Research
5250	Material Structure Research
5260	Space Physics Research
5301	Test and Operations Engineering
5303	Reliability and Maintainability
5304	Booster and Other Subsystems Technology
5306	Test and Operations Engineering
5307	Inter-Service Data Exchange Program (IDEP)
5352	Project West Wing - SSD
5355	NASA Radiation Environment Study
5501	General Planning
5510	System Planning
5520	Vehicle System Planning
5527	MOL Systems Planning
5530	General and Systems Planning
5531	Program 814
5540	Electronic Subsystems and Techniques
5560	Applied Mechanics Subsystems and Techniques
5710	Program Element Support
5730	Technical Support
5760	Space Experiments

Job Order

5801	Program 479A
5805	Program WS 325A - MMRBM
5807	Stellar Acquisition Feasibility Flight (STAFF)
5810	Program 627A (ABRES)
5811	Minuteman Re-entry System Program/Mark 12
5851	Engineering Technology - Test and Operations Engineering
5853	Engineering Technology - Reliability
5855	Engineering Technology - Other
5921	Systems Research and Planning Operations - Ballistic Missile Systems
5922	Systems Research and Planning Operations - Subsystems Planning
5923	Systems Research and Planning Operations
5951	Technical Development Program Support
9210	Mission Oriented Investigation and Experimentation in Propulsion
9220	Mission Oriented Investigation and Experimentation in Plasma Research
9230	Mission Oriented Investigation and Experimentation in Electronics
9240	Mission Oriented Investigation and Experimentation in Aeromechanics
9250	Mission Oriented Investigation and Experimentation in Materials and Structures Research
9260	Mission Oriented Investigation and Experimentation in Space Physics
9990	General Administration

Section III. CONTRACT STATUS REPORTS

CSR-469(5106)APR-1	Annual Progress Report, Vela Satellite Program (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(5106)MPR-1	Monthly Progress Report, Vela Satellite Program	9/10/64	S
CSR-469(5106)MPR-2	Monthly Progress Report, Vela Satellite Program (1 August - 31 August 1964)	10/1/64	U
CSR-469(5106)MPR-3	Monthly Progress Report, Vela Satellite Program (1 September - 30 September 1964)	11/1/64	U
CSR-469(5106)MPR-4	Monthly Progress Report, Vela Satellite Program (1 October - 31 October 1964)	12/1/64	U
CSR-469(5106)MPR-5	Monthly Progress Report, Vela Satellite Program (1 November - 30 November 1964)	1/1/65	U
CSR-469(5106)MPR-6	Monthly Progress Report, Vela Satellite Program (1 December - 31 December 1964)	2/1/65	U
CSR-469(5106)MPR-7	Monthly Progress Report, Vela Satellite Program (1 January - 31 January 1965)	3/1/65	S
CSR-469(5106)MPR-8	Monthly Progress Report, Vela Satellite Program (1 February - 28 February 1965)	4/1/65	C

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5106)MPR-9	Monthly Progress Report, Vela Satellite Program (1 March - 31 March 1965)	5/1/65	C
CSR-469(5106)MPR-10	Monthly Progress Report, Vela Satellite Program (1 April - 30 April 1965)	6/1/65	C
CSR-469(5106)MPR-11	Monthly Progress Report, Vela Satellite Program (1 May - 31 May 1965)	7/1/65	C
CSR-469(5106)MPR-12	Monthly Progress Report, Vela Satellite Program (1 June - 30 June 1965)	8/1/65	C
CSR-469(5107)APR-1	Annual Progress Report, Manned Orbiting Laboratory (MOL) (1 July 1964 - 30 June 1965)	9/16/65	C LD
CSR-469(5107)MPR-1	Monthly Progress Report, Manned Orbiting Laboratory (MOL)	9/10/64	C
CSR-469(5107)MPR-2	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 August - 31 August 1964)	10/1/64	U
CSR-469(5107)MPR-3	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 September - 30 September 1964)	11/1/64	U
CSR-469(5107)MPR-4	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 October - 31 October 1964)	12/1/64	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5107)MPR-5	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 November - 30 November 1964)	1/1/65	U
CSR-469(5107)MPR-6	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 December - 31 December 1964)	2/1/65	U
CSR-469(5107)MPR-7	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 January - 31 January 1965)	3/1/65	U
CSR-469(5107)MPR-8	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 February - 28 February 1965)	4/1/65	C
CSR-469(5107)MPR-9	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 March - 31 March 1965)	5/1/65	U
CSR-469(5107)MPR-10	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 April - 30 April 1965)	6/1/65	C
CSR-469(5107)MPR-11	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 May - 31 May 1965)	7/1/65	U
CSR-469(5107)MPR-12	Monthly Progress Report, Manned Orbiting Laboratory (MOL) (1 June - 30 June 1965)	8/1/65	C
CSR-469(5110)APR-1	Annual Progress Report, Satellite Control Operations (1 July 1964 - 30 June 1965)	9/16/65	S LD

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5110)MPR-1	Monthly Progress Report, Satellite Control Operations	9/10/64	U
CSR-469(5110)MPR-2	Monthly Progress Report, Satellite Control Operations (1 August - 31 August 1964)	10/1/64	U
CSR-469(5110)MPR-3	Monthly Progress Report, Satellite Control Operations (1 September - 30 September 1964)	11/1/64	C
CSR-469(5110)MPR-4	Monthly Progress Report, Satellite Control Operations (1 October - 31 October 1964)	12/1/64	C
CSR-469(5110)MPR-5	Monthly Progress Report, Satellite Control Operations (1 November - 30 November 1964)	1/1/65	C
CSR-469(5110)MPR-6	Monthly Progress Report, Satellite Control Operations (1 December - 31 December 1964)	2/1/65	S
CSR-469(5110)MPR-7	Monthly Progress Report, Satellite Control Operations (1 January - 31 January 1965)	3/1/65	C
CSR-469(5110)MPR-8	Monthly Progress Report, Satellite Control Operations (1 February - 28 February 1965)	4/1/65	S
CSR-469(5110)MPR-9	Monthly Progress Report, Satellite Control Operations (1 March - 31 March 1965)	5/1/65	C



Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5110)MPR-10	Monthly Progress Report, Satellite Control Operations (1 April - 30 April 1965)	6/1/65	C
CSR-469(5110)MPR-11	Monthly Progress Report, Satellite Control Operations (1 May - 31 May 1965)	7/1/65	C
CSR-469(5110)MPR-12	Monthly Progress Report, Satellite Control Operations (1 June - 30 June 1965)	8/1/65	U
CSR-469(5111)APR-1	Annual Progress Report, Program 572/814 (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(5111)MPR-1	Monthly Progress Report, Program 369/814	9/10/64	S
CSR-469(5111)MPR-2	Monthly Progress Report, Program 369/814 (1 August - 31 August 1964)	10/1/64	S
CSR-469(5111)MPR-3	Monthly Progress Report, Program 369/814 (1 September - 30 September 1964)	11/1/64	C
CSR-469(5111)MPR-4	Monthly Progress Report, Program 369/814 (1 October - 31 October 1964)	12/1/64	C
CSR-469(5111)MPR-5	Monthly Progress Report, Program 369/814 (1 November - 30 November 1964)	1/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(51111)MPR-6	Monthly Progress Report, Program 369/814 (1 December - 31 December 1964)	2/1/65	C
CSR-469(51111)MPR-7	Monthly Progress Report, Program 369/814 (1 January - 31 January 1965)	3/1/65	C
CSR-469(51111)MPR-8	Monthly Progress Report, Program 369/814 (1 February - 28 February 1965)	4/1/65	C
CSR-469(51111)MPR-9	Monthly Progress Report, Program 369/814 (1 March - 31 March 1965)	5/1/65	C
CSR-469(51111)MPR-10	Monthly Progress Report, Program 572/814 (1 April - 30 April 1965)	6/1/65	C
CSR-469(51111)MPR-11	Monthly Progress Report, Program 572/814 (1 May - 31 May 1965)	7/1/65	C
CSR-469(51111)MPR-12	Monthly Progress Report, Program 572/814 (1 June - 30 June 1965)	8/1/65	U
CSR-469(51116)APR-1	Annual Progress Report, Program 624A (1 July 1964 - 30 June 1965)	9/16/65	C LD
CSR-469(51116)MPR-1	Monthly Progress Report, Program 624A	9/10/64	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5116)MPR-2	Monthly Progress Report, Program 624A (1 August - 31 August 1964)	10/1/64	U
CSR-469(5116)MPR-3	Monthly Progress Report, Program 624A (1 September - 30 September 1964)	11/1/64	C
CSR-469(5116)MPR-4	Monthly Progress Report, Program 624A (1 October - 31 October 1964)	12/1/64	U
CSR-469(5116)MPR-5	Monthly Progress Report, Program 624A (1 November - 30 November 1964)	1/1/65	U
CSR-469(5116)MPR-6	Monthly Progress Report, Program 624A (1 December - 31 December 1964)	2/1/65	U
CSR-469(5116)MPR-7	Monthly Progress Report, Program 624A (1 January - 31 January 1965)	3/1/65	U
CSR-469(5116)MPR-8	Monthly Progress Report, Program 624A (1 February - 28 February 1965)	4/1/65	U
CSR-469(5116)MPR-9	Monthly Progress Report, Program 624A (1 March - 31 March 1965)	5/1/65	U
CSR-469(5116)MPR-10	Monthly Progress Report, Program 624A (1 April - 30 April 1965)	6/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5116)MPR-11	Monthly Progress Report, Program 624A (1 May - 31 May 1965)	7/1/65	U
CSR-469(5116)MPR-12	Monthly Progress Report, Program 624A (1 June - 30 June 1965)	8/1/65	C
CSR-469(5126)APR-1	Annual Progress Report, Gemini Launch Vehicle Program (1 July 1964 - 30 June 1965)	9/16/65	U LD
CSR-469(5126)MPR-1	Monthly Progress Report, Gemini Launch Vehicle Program	9/10/64	C
CSR-469(5126)MPR-2	Monthly Progress Report, Gemini Launch Vehicle Program (1 August - 31 August 1964)	10/1/64	U
CSR-469(5126)MPR-3	Monthly Progress Report, Gemini Launch Vehicle Program (1 September - 30 September 1964)	11/1/64	U
CSR-469(5126)MPR-4	Monthly Progress Report, Gemini Launch Vehicle Program (1 October - 31 October 1964)	12/1/64	U
CSR-469(5126)MPR-5	Monthly Progress Report, Gemini Launch Vehicle Program (1 November - 30 November 1964)	1/1/65	U
CSR-469(5126)MPR-6	Monthly Progress Report, Gemini Launch Vehicle Program (1 December - 31 December 1964)	2/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5126)MPR-7	Monthly Progress Report, Gemini Launch Vehicle Program (1 January - 31 January 1965)	3/1/65	U
CSR-469(5126)MPR-8	Monthly Progress Report, Gemini Launch Vehicle Program (1 February - 28 February 1965)	4/1/65	U
CSR-469(5126)MPR-9	Monthly Progress Report, Gemini Launch Vehicle Program (1 March - 31 March 1965)	5/1/65	U
CSR-469(5126)MPR-10	Monthly Progress Report, Gemini Launch Vehicle Program (1 April - 30 April 1965)	6/1/65	U
CSR-469(5126)MPR-11	Monthly Progress Report, Gemini Launch Vehicle Program (1 May - 31 May 1965)	7/1/65	U
CSR-469(5126)MPR-12	Monthly Progress Report, Gemini Launch Vehicle Program (1 June - 30 June 1965)	8/1/65	C
CSR-469(5128)APR-1	Annual Progress Report, Program 461 (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(5128)MPR-1	Monthly Progress Report, Program 461	9/10/64	C
CSR-469(5128)MPR-2	Monthly Progress Report, Program 461 (1 August - 31 August 1964)	10/1/64	S

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5128)MPR-3	Monthly Progress Report, Program 461 (1 September - 30 September 1964)	11/1/64	S
CSR-469(5128)MPR-4	Monthly Progress Report, Program 461 (1 October - 31 October 1964)	12/1/64	U
CSR-469(5128)MPR-5	Monthly Progress Report, Program 461 (1 November - 30 November 1964)	1/1/65	U
CSR-469(5128)MPR-6	Monthly Progress Report, Program 461 (1 December - 31 December 1964)	2/1/65	U
CSR-469(5128)MPR-7	Monthly Progress Report, Program 461 (1 January - 31 January 1965)	3/1/65	S
CSR-469(5128)MPR-8	Monthly Progress Report, Program 461 (1 February - 28 February 1965)	4/1/65	C
CSR-469(5128)MPR-9	Monthly Progress Report, Program 461 (1 March - 31 March 1965)	5/1/65	U
CSR-469(5128)MPR-10	Monthly Progress Report, Program 461 (1 April - 30 April 1965)	6/1/65	C
CSR-469(5128)MPR-11	Monthly Progress Report, Program 461 (1 May - 31 May 1965)	7/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5128)MPR-12	Monthly Progress Report, Program 461 (1 June - 30 June 1965)	8/1/65	C
CSR-469(5181)APR-1	Annual Progress Report, Standard Launch Vehicle II (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(5181)MPR-1	Monthly Progress Report, Standard Launch Vehicle II	9/10/64	C
CSR-469(5181)MPR-2	Monthly Progress Report, Standard Launch Vehicle II (1 August - 31 August 1964)	10/1/64	U
CSR-469(5181)MPR-3	Monthly Progress Report, Standard Launch Vehicle II (1 September - 30 September 1964)	11/1/64	C
CSR-469(5181)MPR-4	Monthly Progress Report, Standard Launch Vehicle II (1 October - 31 October 1964)	12/1/64	C
CSR-469(5181)MPR-5	Monthly Progress Report, Standard Launch Vehicle II (1 November - 30 November 1964)	1/1/65	C
CSR-469(5181)MPR-6	Monthly Progress Report, Standard Launch Vehicle II (1 December - 31 December 1964)	2/1/65	U
CSR-469(5181)MPR-7	Monthly Progress Report, Standard Launch Vehicle II (1 January - 31 January 1965)	3/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5181)MPR-8	Monthly Progress Report, Standard Launch Vehicle II (1 February - 28 February 1965)	4/1/65	U
CSR-469(5181)MPR-9	Monthly Progress Report, Standard Launch Vehicle II (1 March - 31 March 1965)	5/1/65	U
CSR-469(5181)MPR-10	Monthly Progress Report, Standard Launch Vehicle II (1 April - 30 April 1965)	6/1/65	U
CSR-469(5181)MPR-11	Monthly Progress Report, Standard Launch Vehicle II (1 May - 31 May 1965)	7/1/65	U
CSR-469(5181)MPR-12	Monthly Progress Report, Standard Launch Vehicle II (1 June - 30 June 1965)	8/1/65	C
CSR-469(5182)APR-1	Annual Progress Report, Standard Launch Vehicle III (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(5182)MPR-1	Monthly Progress Report, Standard Launch Vehicle III	9/10/64	C
CSR-469(5182)MPR-2	Monthly Progress Report, Standard Launch Vehicle III (1 August - 31 August 1964)	10/1/64	U
CSR-469(5182)MPR-3	Monthly Progress Report Standard Launch Vehicle III (1 September - 30 September 1964)	11/1/64	S



Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5182)MPR-4	Monthly Progress Report, Standard Launch Vehicle III (1 October - 31 October 1964)	12/1/64	S
CSR-469(5182)MPR-5	Monthly Progress Report, Standard Launch Vehicle III (1 November - 30 November 1964)	1/1/65	C
CSR-469(5182)MPR-6	Monthly Progress Report, Standard Launch Vehicle III (1 December - 31 December 1964)	2/1/65	U
CSR-469(5182)MPR-7	Monthly Progress Report, Standard Launch Vehicle III (1 January - 31 January 1965)	3/1/65	U
CSR-469(5182)MPR-8	Monthly Progress Report, Standard Launch Vehicle III (1 February - 28 February 1965)	4/1/65	C
CSR-469(5182)MPR-9	Monthly Progress Report, Standard Launch Vehicle III (1 March - 31 March 1965)	5/1/65	U
CSR-469(5182)MPR-10	Monthly Progress Report, Standard Launch Vehicle III (1 April - 30 April 1965)	6/1/65	C
CSR-469(5182)MPR-11	Monthly Progress Report, Standard Launch Vehicle III (1 May - 31 May 1965)	7/1/65	C
CSR-469(5182)MPR-12	Monthly Progress Report, Standard Launch Vehicle III (1 June - 30 June 1965)	8/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5183)APR-1	Annual Progress Report, Gemini Agena Target Vehicle Program (1 July 1964 - 30 June 1965)	9/16/65	U LD
CSR-469(5183)MPR-5	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 November - 30 November 1964)	1/1/65	U
CSR-469(5183)MPR-6	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 December - 31 December 1964)	2/1/65	U
CSR-469(5183)MPR-7	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 January - 31 January 1965)	3/1/65	U
CSR-469(5183)MPR-8	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 February - 28 February 1965)	4/1/65	U
CSR-469(5183)MPR-9	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 March - 31 March 1965)	5/1/65	U
CSR-469(5183)MPR-10	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 April - 30 April 1965)	6/1/65	U
CSR-469(5183)MPR-11	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 May - 31 May 1965)	7/1/65	U
CSR-469(5183)MPR-12	Monthly Progress Report, Gemini Agena Target Vehicle Program (1 June - 30 June 1965)	8/1/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5520-25)APR-1	Annual Progress Report, Program 680A (1 July 1964 - 30 June 1965)	9/16/65	C LD
CSR-469(5520-25)MPR-2	Monthly Progress Report, Program 680A (1 August - 31 August 1964)	10/1/64	C
CSR-469(5520-25)MPR-3	Monthly Progress Report, Program 680A (1 September - 30 September 1964)	11/1/64	C
CSR-469(5520-25)MPR-4	Monthly Progress Report, Program 680A (1 October - 31 October 1964)	12/1/64	C
CSR-469(5520-25)MPR-5	Monthly Progress Report, Program 680A (1 November - 30 November 1964)	1/1/65	C
CSR-469(5520-25)MPR-6	Monthly Progress Report, Program 680A (1 December - 31 December 1964)	2/1/65	C
CSR-469(5520-25)MPR-7	Monthly Progress Report, Program 680A (1 January - 31 January 1965)	3/1/65	C
CSR-469(5520-25)MPR-8	Monthly Progress Report, Program 680A (1 February - 28 February 1965)	4/1/65	C
CSR-469(5520-25)MPR-9	Monthly Progress Report, Program 680A (1 March - 31 March 1965)	5/1/65	C

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(5520-25)MPR-10	Monthly Progress Report, Program 680A (1 April - 30 April 1965)	6/1/65	C
CSR-469(5520-25)MPR-11	Monthly Progress Report, Program 680A (1 May - 31 May 1965)	7/1/65	C
CSR-469(5520-25)MPR-12	Monthly Progress Report, Program 680A (1 June - 30 June 1965)	8/1/65	C
CSR-469(9990)APR-1, Vol I	Annual Progress Report to SSD, Volume I (1 July 1964 - 30 June 1965)	9/ /65	S LD
CSR-469(S9990)APR-1, Vol II	Annual Progress Report to BSD, Volume II (1 July 1964 - 30 June 1965)	9/ /65	S RD
CSR-469(9990)MPR-1, Vol I	Monthly Progress Report to SSD, Volume I (1 July - 31 July 1964)	7/ /64	S
CSR-469(S9990)MPR-1, Vol II	Monthly Progress Report to BSD, Volume II (1 July - 31 July 1964)	7/ /64	S
CSR-469(9990)MPR-2, Vol I	Monthly Progress Report to SSD, Volume I (1 August - 31 August 1964)	8/ /64	S
CSR-469(S9990)MPR-2, Vol II	Monthly Progress Report to BSD, Volume II (1 August - 31 August 1964)	8/ /64	S

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990)MPR-3, Vol I	Monthly Progress Report to SSD, Volume I (1 September - 30 September 1964)	9/ /64	S
CSR-469(S9990)MPR-3, Vol II	Monthly Progress Report to BSD, Volume II (1 September - 30 September 1964)	9/ /64	S
CSR-469(9990)MPR-4, Vol I	Monthly Progress Report to SSD, Volume I (1 October - 31 October 1964)	10/ /64	S
CSR-469(S9990)MPR-4, Vol II	Monthly Progress Report to BSD, Volume II (1 October - 31 October 1964)	10/ /64	S RD
CSR-469(9990)MPR-5, Vol I	Monthly Progress Report to SSD, Volume I (1 November - 30 November 1964)	11/ /64	C
CSR-469(S9990)MPR-5, Vol II	Monthly Progress Report to BSD Volume II (1 November - 30 November 1964)	11/ /64	S RD
CSR-469(9990)MPR-6, Vol I	Monthly Progress Report to SSD, Volume I (1 December - 31 December 1964)	1/25/65	S
CSR-469(S9990)MPR-6, Vol II	Monthly Progress Report to BSD Volume II (1 December - 31 December 1964)	12/ /64	S RD
CSR-469(9990)MPR-7, Vol I	Monthly Progress Report to SSD, Volume I (1 January - 31 January 1965)	2/25/65	S

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(S9990)MPR-7, Vol II	Monthly Progress Report to BSD, Volume II (1 January - 31 January 1965)	1 / 65	S RD
CSR-469(9990)MPR-8, Vol I	Monthly Progress Report to SSD, Volume I (1 February - 28 February 1965)	3 / 25 / 65	S
CSR-469(S9990)MPR-8, Vol II	Monthly Progress Report to BSD, Volume II (1 February - 28 February 1965)	3 / 65	S RD
CSR-469(9990)MPR-9, Vol I	Monthly Progress Report to SSD, Volume I (1 March - 31 March 1965)	4 / 26 / 65	S
CSR-469(S9990)MPR-9, Vol II	Monthly Progress Report to BSD, Volume II (1 March - 31 March 1965)	3 / 65	S RD
CSR-469(9990)MPR-10, Vol I	Monthly Progress Report to SSD, Volume I (1 April - 30 April 1965)	5 / 25 / 65	S
CSR-469(S9990)MPR-10, Vol II	Monthly Progress Report to BSD, Volume II (1 April - 30 April 1965)	4 / 65	S RD
CSR-469(9990)MPR-11, Vol I	Monthly Progress Report to SSD, Volume I (1 May - 31 May 1965)	6 / 25 / 65	S
CSR-469(S9990)MPR-11, Vol II	Monthly Progress Report to BSD, Volume II (1 May - 31 May 1965)	5 / 65	S RD

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990)MPR-12, Vol I	Monthly Progress Report to SSD, Volume I (1 June - 30 June 1965)	7/26/65	S
CSR-469(S9990)MPR-12, Vol II	Monthly Progress Report to BSD, Volume II (1 June - 30 June 1965)	6/ /65	S RD
CSR-469(9990)MS-1	Monthly Summary of Technical Documentary Reports (1 July - 1 August 1964)	8/10/64	U
CSR-469(9990)MS-2	Monthly Summary of Technical Documentary Reports (1 August - 1 September 1964)	9/10/64	U
CSR-469(9990)MS-3	Monthly Summary of Technical Documentary Reports (1 September - 1 October 1964)	10/10/64	U
CSR-469(9990)MS-4	Monthly Summary of Technical Documentary Reports (1 October - 1 November 1964)	11/10/64	U
CSR-469(9990)MS-5	Monthly Summary of Technical Documentary Reports (1 November - 1 December 1964)	12/10/64	U
CSR-469(9990)MS-6	Monthly Summary of Technical Documentary Reports (1 December - 31 December 1964)	1/11/65	U
CSR-469(9990)MS-7	Monthly Summary of Technical Documentary Reports (1 January - 31 January 1965)	2/10/65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990)MS-8	Monthly Summary of Technical Documentary Reports (1 February - 28 February 1965)	3/10/65	U
CSR-469(9990)MS-9	Monthly Summary of Technical Documentary Reports (1 March - 31 March 1965)	4/10/65	U
CSR-469(9990)MS-10	Monthly Summary of Technical Documentary Reports (1 April - 30 April 1965)	5/10/65	U
CSR-469(9990)MS-11	Monthly Summary of Technical Documentary Reports (1 May - 31 May 1965)	6/10/65	U
CSR-469(9990)MS-12	Monthly Summary of Technical Documentary Reports (1 June - 30 June 1965)	7/10/65	U
CSR-469(9990)PP-1	Professional Papers Cleared for Possible Publication and/or Presentation (16 June - 15 July 1964)	7/31/64	U
CSR-469(9990)PP-2	Professional Papers Cleared for Possible Publication and/or Presentation (16 July - 15 August 1964)	8/31/64	U
CSR-469(9990)PP-3	Professional Papers Cleared for Possible Publication and/or Presentation (16 August - 15 September 1964)	9/30/64	U
CSR-469(9990)PP-4	Professional Papers Cleared for Possible Publication and/or Presentation (16 September - 15 October 1964)	10/30/64	U



Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990)QBR-1	Quarterly Bibliography of Reports Prepared Under Contract No. AF 04(695)-469 (1 July - 30 September 1964)	11/30/64	U
CSR-469(9990)QBR-2	Quarterly Bibliography of Reports Prepared Under Contract No. AF 04(695)-469 (1 October - 31 December 1964)	1/31/65	U
CSR-469(9990)QBR-3	Quarterly Bibliography of Reports Prepared Under Contract No. AF 04(695)-469 (1 January - 31 March 1965)	4/ /65	U
CSR-469(9990)QBR-4	Quarterly Bibliography of Reports Prepared Under Contract No. AF 04(695)-469 (1 April - 30 June 1965)	7/31/65	U
CSR-469(9990)SPR-1	Research and Experimentation: Semiannual Progress Report (1 July - 30 September 1964)	11/1/64	U
CSR-469(9990)SPR-2	Mission-Oriented Investigation and Experimentation: Semiannual Progress Report (1 July - 30 September 1964)	12/1/64	U
CSR-469(9990)SPR-3	Research and Experimentation: Semiannual Progress Report (1 October 1964 - 31 March 1965)	5/ /65	U
CSR-469(9990)SPR-4	Mission-Oriented Investigation and Experimentation: Semiannual Progress Report (1 October 1964 - 31 March 1965)	5/ /65	U

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990-649D)APR-1	Annual Progress Report, 649D Technical Support (1 July 1964 - 30 June 1965)	9/16/65	S LD
CSR-469(9990-649D)MPR-1	Monthly Progress Report, 649D Technical Support	9/10/64	S
CSR-469(9990-649D)MPR-2	Monthly Progress Report, 649D Technical Support (1 August - 31 August 1964)	10/1/64	S
CSR-469(9990-649D)MPR-3	Monthly Progress Report, 649D Technical Support (1 September - 30 September 1964)	11/1/64	C
CSR-469(9990-649D)MPR-4	Monthly Progress Report, 649D Technical Support (1 October - 31 October 1964)	12/1/64	C
CSR-469(9990-649D)MPR-5	Monthly Progress Report, 649D Technical Support (1 November - 30 November 1964)	1/1/65	C
CSR-469(9990-649D)MPR-6	Monthly Progress Report, 649D Technical Support (1 December - 31 December 1964)	2/1/65	S
CSR-469(9990-649D)MPR-7	Monthly Progress Report, 649D Technical Support (1 January - 31 January 1965)	3/1/65	C
CSR-469(9990-649D)MPR-8	Monthly Progress Report, 649D Technical Support (1 February - 28 February 1965)	4/1/65	S

Section III. CONTRACT STATUS REPORTS (Continued)

CSR-469(9990-649D)MPR-9	Monthly Progress Report, 649D Technical Support (1 March - 31 March 1965)	5/1/65	S
CSR-469(9990-649D)MPR-10	Monthly Progress Report, 649D Technical Support (1 April - 30 April 1965)	6/1/65	S
CSR-469(9990-649D)MPR-11	Monthly Progress Report 649D Technical Support (1 May - 31 May 1965)	7/1/65	S
CSR-469(9990-649D)MPR-12	Monthly Progress Report 649D Technical Support (1 June - 30 June 1965)	8/1/65	S

Section IV. TECHNICAL OPERATING REPORTS

TOR-469(5101)-1  
TOR-469(5101)-2  
TOR-469(5101)-3  
TOR-469(5101)-4  
TOR-469(5101)-5  
TOR-469(5101)-6  
TOR-469(5101)-7  
TOR-469(5101)-9  
TOR-469(5101-01)-2,  
Reissue A  
TOR-469(5101-01)-3  
TOR-469(5101-01)-4  
TOR-469(5101-01)-5  
TOR-469(5101-01)-6  
TOR-469(5101-01)-7  
TOR-469(5101-01)-8  
TOR-469(5101-01)-10  
TOR-469(5101-01)-11  
TOR-469(5101-01)-12

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5101-01)-13

TOR-469(5101-01)-14

TOR-469(5101-01)-15

TOR-469(5101-01)-16

TOR-469(5101-01)-17

TOR-469(5101-01)-18

TOR-469(5101-01)-19

TOR-469(5101-02)-1,  
Reissue B

TOR-469(5101-02)-2

TOR-469(5101-02)-3,  
Reissue B

TOR-469(5101-02)-4,  
Reissue B

TOR-469(5101-02)-5

TOR-469(5101-02)-6

TOR-469(5101-02)-8

TOR-469(5101-02)-9

TOR-469(5102)-2

TOR-469(5103)-1,  
Vol I

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5103)-1, Vol II				
TOR-469(5105)-1				
TOR-469(5105)-2				
TOR-469(5106-01)-1	Orbit Status Report, Vehicles 3662/3674, Vela Satellite Program	A. Grossman, H. E. Hogfors, E. E. Loft	9/28/64	U
TOR-469(5106-01)-2	A Study of Vela Satellite Anomalies of Launch No. 2	R. E. Austin	9/ /64	S
TOR-469(5106-01)-3	Vela Satellite Program Software Requirements Document, Launch III	C. H. Shorter	12/15/64	C
TOR-469(5106-01)-4	Spacecraft/Payload Interfaces, Vela Satellite Program Interface Specifications	D. G. Egar	12/15/64	U
TOR-469(5106-01)-5	Vela Satellite Program, System Test Objectives Launch No. 3		4/ /65	S
TOR-469(5106-01)-6	Vela-Spacecraft/Stage II Interface Specification IF1-2		5/1/65	U
TOR-469(5106-01)-7	Vela Satellite Program, Stage I/Stage II Interface Specification IF3-1		5/1/65	U
TOR-469(5106-01)-8	ORS-III Program Detector Systems Preliminary Design Specification SS1-2	D. G. Egan	5/1/65	U
TOR-469(5106-01)-9	Vela-Spacecraft/Payload AGE Specification IF 2-4	D. G. Egan	5/1/65	U
TOR-469(5106-01)-10	Vela Satellite Program, Launch and Orbital Operations Plan, Launch 3	--	5/ /65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5106-01)-11	Downward Looking Sensors	R. A. Rapuano	11/1/65	S
TOR-469(5106-01)-13	461/Vela Satellite Program Software Requirements Document	L. Maktenieks	7/15/65	U
TOR-469(5106-03)-1	Advanced Systems Studies	--	12/ /64	S
TOR-469(5107)-1, Vol I	MOL Program Prerequisites Data Report, Volume I: MOL System	--	4/ /65	S
TOR-469(5107)-1, Vol II	MOL Program Prerequisites Data Report, Volume II: MOL Experiments	--	12/ /64	S LD
TOR-469(5107)-2, Vol I	Aerospace Corporation Input to MOL Preliminary Technical Development Plan, Volume I: Section 6, Acquisition of the MOL Preliminary Development Plan	--	5/ /65	S LD
TOR-469(5107)-2, Vol II	Aerospace Corporation Input to MOL Preliminary Technical Development Plan, Volume II: Annex C, MOL Program Alternatives	D. P. Armstrong	5/ /65	S
TOR-469(5107-10)-4	Formulation of a Cost Breakdown for Estimation and Evaluation	W. Lydon	6/22/65	U
TOR-469(5107-10)-5	Manned Spacecraft for Ocean Surveillance	L. L. Giller, J. R. Rogers	4/26/65	S
TOR-469(5107-15)-1	Effect of Hardover Malfunctions in Titan III on MOL	H. Hecht	8/10/64	U
TOR-469(5107-15)-2	Blast Pressure Effect on Parachute During Pad Abort from Gemini/MOL	H. Wang, H. Epple	9/22/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-15)-4	Crew Safety Estimation for Gemini B During Launch	P. W. Soule	9/21/64	U
TOR-469(5107-15)-5	Gemini B/Titan IIC/Laboratory Interfaces	C. Plank	9/18/64	U
TOR-469(5107-15)-6	Gemini B Subsystems Briefing	W. F. Roberts	9/18/64	U
TOR-469(5107-15)-7	Crew Transfer Briefing	W. F. Roberts	9/22/64	U
TOR-469(5107-15)-8	Loiter Time for Gemini B Recovery Opportunities	R. G. Stern	1/18/65	C
TOR-469(5107-15)-9, Reissue B	Gemini B Baseline Configuration, Reissue B	J. R. Henry	6/23/65	C
TOR-469(5107-15)-10	Recommendations for Reducing Gemini B AGE Vans and Equipment Requirements	M. D. Kingston	1/ /65	U
TOR-469(5107-15)-11	Expandable Structures for Construction of Astronaut Transfer Tunnel	V. F. Hribar	2/5/65	U
TOR-469(5107-15)-12	Launch, Catch-Up, and Closure Aspects of MOL Rendezvous Missions	T. J. Connor	2/1/65	C
TOR-469(5107-15)-13	MOL Crew Safety Review Briefing	E. L. LaPorte	2/15/65	U
TOR-469(5107-15)-14	Proposed Acceptance Requirements for Gemini B Spacecraft Equipment End Items	C. Plank	5/ /65	U
TOR-469(5107-15)-15, Reissue A	Proposed Acceptance Requirements for Gemini B Aerospace Ground Equipment (AGE) End Items, Reissue A	C. Plank	10/ /65	U



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-15)-16, Reissue A	Proposed Guidelines for Preparation of Gemini B Acceptance Test Plan, Reissue A	C. Plank	10/ /65	U
TOR-469(5107-15)-17	MOL Program Gemini B AVE/Laboratory AVE Preliminary Interface Specification	T. J. Connor	5/12/65	U
TOR-469(5107-15)-19	Aerospace Corporation Evaluation of the Gemini B Pre-Phase I Study	J. R. Henry	5/ /65	C
TOR-469(5107-20)-1	A Multiple Fly-by Mission for the MOL	P. T. Guttman	9/23/64	C
TOR-469(5107-20)-2	Gemini B/Titan III Status Report Briefing Charts	R. T. Dungan, J. R. Henry	9/21/64	C
TOR-469(5107-20)-5	Manned Orbiting Laboratory Environmental Flight Test, Martin Company Statement of Work	P. Margolis, R. Ragsdale	12/3/64	U
TOR-469(5107-20)-6	MOL-Titan III Vehicle Improvement Program Briefing	R. T. Dungan, S. Lewis	12/31/64	C
TOR-469(5107-20)-7	Titan III Single Failure Analysis	S. Lewis	2/12/65	C
TOR-469(5107-20)-8	MOL/Titan III Launch Vehicle Design Data	S. Lewis	2/26/65	C
TOR-469(5107-20)-9	Statement of Work for Definition Phase IB of the MOL/Titan III Booster Program	R. A. Ragsdale	4/7/65	U
TOR-469(5107-20)-10	AC Spark Plug Statement of Work for Definition Phase IB of the MOL/Titan III Booster Program	M. E. Schwartz	4/27/65	U
TOR-469(5107-25)-3	MOL Video Space-Ground Link	R. A. Stang	7/ /64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-25)-5	Manned Orbiting Laboratory Ground Support System for Baseline Planning	W. C. Hazel, J. C. Helland	10/ /64	C
TOR-469(5107-25)-6	Manned Orbiting Laboratory, Mission Operations Planning Reference Data	W. H. Cullin	12/ /64	C LD
TOR-469(5107-25)-7	Summary of Pre-Definition Phase Studies for MOL Operational Ground Support	--	1/ /65	C LD
TOR-469(5107-25)-8	NRD Planning Estimate, MOL Early Flight Test Program	L. Cooper	4/23/65	C LD
TOR-469(5107-30)-2	Pre-Phase I System Effectiveness Guide	D. T. Romine	7/ /64	U
TOR-469(5107-30)-3	General Specification for Electromagnetic Compatibility Requirements for Manned Spacecraft	E. B. Arrow-smith	9/ /64	U
TOR-469(5107-30)-4	General Specification for Wiring Harness in Manned Spacecraft	G. Goldfarb	9/15/64	U
TOR-469(5107-30)-5	Requirements and Constraints for the Environmental Control and Life Support Subsystem Study, Manned Orbiting Laboratory	A. Dare	9/11/64	C
TOR-469(5107-30)-6	MOL System Effectiveness Rationale	D. T. Romine	9/ /64	U
TOR-469(5107-30)-7	MOL Orbital Vehicle Design Review	C. L. Olson	9/21/64	C
TOR-469(5107-30)-8	Leak Detection Study for Manned Spacecraft	G. Ducoff	10/8/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-30)-10	MOL Reaction Jet System Configuration, System Performance and Thrust Chamber Status - Briefing Charts	L. K. Herman, A. L. Paynter, D. H. Jaeger	10/29/64	C
TOR-469(5107-30)-11	MOL Program Review Briefing	C. L. Olson	11/4/64	C
TOR-469(5107-30)-12	Horizon Sensor Data for P-8 and Other MOL Experiments	E. U. Gambaro, L. K. Herman	11/23/64	C LD
TOR-469(5107-30)-13	MOL Cryogenic Tankage Study	V. H. Ho	1/8/65	C
TOR-469(5107-30)-14	Attitude Reference for the MOL Vehicle and Experiments	J. R. Rogers	2/5/65	C
TOR-469(5107-35)-2	Suboptimal Linear Filtering for Continuous Dynamic Processes	J. S. Meditch	7/15/64	U
TOR-469(5107-35)-3	(Not Available)			
TOR-469(5107-36)-1	A Feasibility Study of ELINT Operator Performance Relative to an Orbital Collection System	T. A. Hussman, S. D. Crane	12/ /64	S
TOR-469(5107-36)-2	Antennas for Satellite-Borne ELINT	F. L. Hennessey	4/ /65	S
TOR-469(5107-36)-3	Technical Summary and Analysis of MOL Large Antenna Structures, Pre-Phase I Study Reports	--	7/19/65	S LD
TOR-469(5107-36)-4	Microwave Radiometry for Reconnaissance and Mapping Applications	H. M. Wachowski	8/ /65	S
TOR-469(5107-37)-1	Large Unfurlable Antennas	P. L. Bargellini, R. L. Glasser	7/22/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-37)-2	Data Addendum for MOL Technology Experiments	R. L. Glasser	10/20/64	S
TOR-469(5107-37)-3	Data Interface for MOL Secondary Experiments	F. F. Yates	12/ /64	C
TOR-469(5107-38)-1	Horizon Sensors and Horizon Profile Measurements	M. D. Earle	2/ /65	C
TOR-469(5107-38)-2	The MOL Multiband Spectral Observations Experiment (P-10) Infrared Background Study	R. D. Rawcliffe	1/ /65	C
TOR-469(5107-38)-3	The MOL Multiband Spectral Observations Experiment (P-10) Ballistic Target Study	R. D. Rawcliffe	1/ /65	S
TOR-469(5107-38)-4	Target Detection Trade-Offs for MOL/P-10	L. Dosti	3/ /65	S
TOR-469(5107-40)-1	Derivation of LOS Rates and LOS Rate Errors for a Satellite-Borne, Two-Gimbal Optical System Above a Flat Earth	J. E. Alexander	1/ /65	U
TOR-469(5107-40)-2	A Study of Force Model Simplifications on Prediction Accuracy as Applied to a Particular Autonomous Navigation Scheme for MOL	I. B. Russak	2/22/65	U
TOR-469(5107-40)-3	Opto-Mechanical Scanners for the MOL Pointing and Tracking Telescope	S. Konopken, H. Chun	3/ /65	C
TOR-469(5107-40)-4	Error Analysis for the MOL Autonomous Orbital Navigation Experiment (P-8)	J. S. Meditch	4/9/65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5107-40)-5	A Mission Application of the MOL Experiment in Autonomous Navigation and Geodesy	E. U. Gambaro	5 / 65	S LD
TOR-469(5107-41)-1	Minimization and Consolidation of MOL Experiment Controls and Displays	J. Buyan, W. K. Clarkson	3 / 65	S
TOR-469(5107-45)-1	MOL Extravehicular Space Suit Data Book	R. S. Swope	11 / 64	U
TOR-469(5107-50)-1	Identification of OSSS Results Applicable to the MOL Program	--	11 / 64	S
TOR-469(5107-55)-1	Factors Affecting the Design of Infrared Sensors for Terrestrial Surveillance from Manned Spacecraft	S. Konopken	12/30/64	S
TOR-469(5107-55)-2	Mission Analysis Vehicle Communication and Data Management Study	R. A. Stang	11 / 64	S
TOR-469(5108-25)-1	Briefing: Start/Capsule/Technology/Ferrycraft	--	10/26/64	S
TOR-469(5108-25)-2	Minutes of Program Review Meeting, Program 680A	--	10/30/64	U
TOR-469(5108-25)-3	START Program SV-5 Data Capsule Study and \$40 M Re-entry Vehicle Program Study White Paper	--	10/30/64	C
TOR-469(5108-25)-4	START Program Review Meeting Minutes	--	11/30/64	C
TOR-469(5108-25)-5	SV-5 Statement of Work	--	12/21/64	C
TOR-469(5108-25)-6	START Program: First Prime Technical Direction Meeting Minutes (19-20 January 1965)	--	1/29/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5108-25)-7	Briefing: Piloted Low Speed Tests Pilot Project	--	3/5/65	C
TOR-469(5108-25)-8	START Program: Second PRIME Technical Direction Meeting Minutes (2-3 March 1965)	--	3/12/65	C
TOR-469(5108-25)-9	Briefing: Piloted Low-Speed Tests Pilot Project	--	3/24/65	C
TOR-469(5108-26)-1	General Specifications for Electro- magnetic Compatibility Requirements for Program 680A Re-entry Vehicle	E. B. Arrow- smith	12/ /64	U
TOR-469(5108-26)-2	Terminal Guidance Functional Design Recommendations for PRIME Vehicle, Program 680A	J. E. Lesinski	6/ /65	C
TOR-469(5108-27)-2	Development and Test Plan for START, Technical Development Plan	--	12/21/64	C
TOR-469(5108-27)-3	Program 680A Performance and Schedule Incentives	--	12/21/64	C
TOR-469(5108-27)-4	Work Statement and Evaluation for Advanced Heat Shield/Structure Design Study	--	1/15/65	C
TOR-469(5108-27)-5	Re-entry Vehicle Heat Shield Sensor Techniques	--	1/15/65	C
TOR-469(5108-27)-6	Program START SV-5D Review of Weight and Size Growth	--	3/15/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5108-27)-7	Hypersonic Force Shock Tunnel Test Results for a Six Percent Scale Model of the SV-5 Vehicle at Mach Number 14.5 in the Aerospace Corporation Hypersonic Shock Tunnel, First Series	J. F. Mullen, L. Rosenman, R. L. Varwig	7 / 65	C
TOR-469(5108-28)-1	Launch System Integrating Contractor Work Statement	J. H. Ashmore	11/16/64	U
TOR-469(5108-28)-2, Reissue A	FIRE Guidance Equations, Modifications, and Accuracy Estimates for Project PRIME, START Program, Reissue A	L. C. Westphal	5/6/65	C
TOR-469(5108-28)-3	PRIME Program Flights 1 and 4 Reference Trajectories	--	1/15/65	C
TOR-469(5108-28)-4	Range Support Study for the PRIME Program	--	2/11/65	C
TOR-469(5108-28)-5	First PRIME Interface Panel Meeting Minutes	--	2/12/65	C
TOR-469(5108-28)-6	START Program Flight Documentation Manual (Preliminary)	--	3/1/65	U
TOR-469(5108-28)-7	Second PRIME Interface Panel Meeting Minutes	--	3/15/65	C
TOR-469(5108-28)-8	PRIME Program: Second Dynamics/Convair Technical Direction Meeting Minutes (5 March 1965)	--	4/5/65	C
TOR-469(5108-28)-9	START Program: PRIME Project, Program Requirements Document	--	6/16/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5108-28)-10	Third PRIME Interface Panel Meeting Minutes	--	4/23/65	C
TOR-469(5108-29)-1	Briefing: START Advanced Design Studies	R. E. Rolfe	11/25/64	U
TOR-469(5108-29)-2	Revisions to START ADP (January 1965) for Advanced Design Studies	--	2/3/65	C
TOR-469(5109)-1				
TOR-469(5110-01)-1	Satellite Control Facility Equipment Capabilities: Equipment Characteristics for VTS, HTS, and the Mobile Station in Support of Program MOL	T. H. Hedene	7/15/64	U
TOR-469(5110-01)-2	Collocated Radar Interference Prevention Modification	J. T. Thompson	7/25/64	U
TOR-469(5110-01)-3	Satellite Control Facility Design Criteria: Digital Command Decoder	R. L. North	7/30/64	C
TOR-469(5110-01)-5	Satellite Control Facility Design Criteria: UHF Command Receiver and Tone Demodulator Subsystem	W. F. Tackett, H. H. Ross	8/1/64	C
TOR-469(5110-01)-6	Smoothing Procedures for PRELORT Radars	J. A. Jackson	8/7/64	U
TOR-469(5110-01)-8	Satellite Control Facility, Design Criteria: Display of Status and Quality Bits for the PRELORT	J. A. Jackson	10/5/64	U
TOR-469(5110-01)-10	Satellite Control Facility Support of System 494L	P. L. Berntsen	8/11/64	U



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01)-12	Configuration Management Instruction Number 1-1: Conduct of First Article Configuration Inspections	R. P. Reimert	9/1/64	U
TOR-469(5110-01)-14	Configuration Management Instruction Number 1-2: Conduct of On-Site Reviews	R. P. Reimert, F. R. Heinrich	10/19/64	U
TOR-469(5110-01)-15	Satellite Control Facility Design Criteria: Telemetry Data Processor Mod II for SCF Remote Tracking Stations	H. E. Pallatt, E. H. Ogle	12/21/64	U
TOR-469(5110-01)-16	Satellite Control Facility, Design Criteria for a PCM Stored Program Ground Station	R. A. Hanson	10/30/64	U
TOR-469(5110-01)-17	Satellite Control Facility, Computer Program Design Criteria for Multiplexing of SCF Telemetry Data	H. M. Reynolds	12/8/64	U
TOR-469(5110-01)-18	Satellite Control Facility: Simulation and Checkout Subsystem for SCF Remote Tracking Stations	J. T. Thompson	1/6/65	U
TOR-469(5110-01)-19	Tracking Errors in 60-Foot Antenna Due to 200-Mc Monopulse Feed in Combination with Tracking Receiver	S. C. Mentzer	4/10/65	U
TOR-469(5110-01)-20	Configuration Management Instruction Number 3-1: SCF Configuration Indexing and Accounting	R. P. Reimert	10/12/64	U
TOR-469(5110-01)-22	Modifications to the PRELORT/VERLORT Radar Range Group to Provide an Extended Range Capability	R. W. Phelps	1/ /65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01)-23	Modifications to the PRELORT/ VERLORT Radars to Provide Inter- changeable C-Band and S-Band Operation	A. H. Shapiro	5/28/65	U LD
TOR-469(5110-01)-24	Modifications to the PRELORT/ VERLORT Radars to Provide C-Band Operation Only	A. H. Shapiro	5/28/65	U LD
TOR-469(5110-01)-25	Satellite Control Facility: Computer Program Design Criteria for General- Purpose PCM Telemetry Ground Stations	H. M. Reynolds	3/16/65	U
TOR-469(5110-01)-26	Satellite Control Facility, Design Criteria: KG-29 Software Subsystem	R. L. North	12/15/64	S
TOR-469(5110-01)-27	Satellite Control Facility, General Command Control Computer Program Modifications	--	12/4/64	U
TOR-469(5110-01)-28	Satellite Control Facility, Computer Program Design Criteria for CDC- 3600/Disk File System Programs (Utility, Support, and Monitor)	G. A. Wires	11/12/64	U
TOR-469(5110-01)-29	SCF Support of MOL Program	T. H. Hedene, R. L. North	10/15/64	C
TOR-469(5110-01)-31	Satellite Control Facility, Design Criteria: CDC-3600/Disk File Computer System for the STC	H. E. Pallett, E. H. Ogle	12/15/64	U
TOR-469(5110-01)-32	Satellite Control Facility: Magnetic Disk Memory Subsystem for the STC	E. L. Braun, E. H. Ogle	2/10/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01j)-33	Satellite Control Facility: Computer Program Design Criteria for the Orbit/Ephemeris Subsystem	H. T. Hendrickson	2/8/65	C
TOR-469(5110-01)-35	Satellite Control Facility, Design Criteria: Magnetic Tape Computer System for the STC	E. H. Ogle	12/31/64	U
TOR-469(5110-01)-38	Validation of the Solutions of the Variational Equations as Employed in a Computer Program Designed for General Purpose Satellite Tracking	P. C. Tiffany	10/30/64	U
TOR-469(5110-01)-39	A Proposed Millimeter Wave Propagation Measurement Program	C. J. Carter, J. Machlis	2/8/65	U LD
TOR-469(5110-01)-40	2-Gc Telemetry and Tracking Receiver System, SCF TT and C Antenna	S. C. Mentzer	2/ /65	U
TOR-469(5110-01)-45	Evaluation of Apollo Range Instrumented Aircraft for Support of SSD Program Requirements	C. E. Daniher	11/27/64	C
TOR-469(5110-01)-46	Configuration Management Instruction Number 1-4 Re-identification of SCF Equipment Due to Non-Interchangeability	R. P. Reimert	11/12/64	U
TOR-469(5110-01)-47	Configuration Management Instruction Number 3-3 - ECP/Modification Implementation Status Reporting	R. P. Reimert	1/20/65	U
TOR-469(5110-01)-49	Satellite Control Facility: Study of the Feasibility of Replacing Master Patch Panels with Relay Matrices	G. Ducoff	12/18/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01)-50	Comments on Apollo Aircraft RFP for Support of SSD Requirements	C. E. Daniher	12/11/64	U
TOR-469(5110-01)-51, Reissue A	Satellite Control Facility, Design Criteria: Equipment Required at the Satellite Test Center for Generation of Analog Tapes, Reissue A	C. E. Daniher, E. E. Retzlaff	6/1/65	U
TOR-469(5110-01)-52	Support of MOL by the Satellite Control Facility Controlled by the Satellite Test Center	--	12/18/64	C
TOR-469(5110-01)-53	Satellite Control Facility, Design Criteria: SCF Calibration Satellite	C. S. Hoff	1/20/65	U
TOR-469(5110-01)-54	Satellite Control Facility: Tracking and Command Computer Program Modifications for Vela Satellite Program Launch III	R. L. North	3/1/65	C
TOR-469(5110-01)-56	Satellite Control Facility, Design Criteria: Expansion of the Digital-Storage Demultiplexing Capabilities in the FM/FM Telemetry Ground Stations	F. T. Sinnott	3/11/65	U
TOR-469(5110-01)-61	Satellite Control Facility: Documents and Criteria Applicable to Equipment Design and Development	U. C. Nolte	6/1/65	U
TOR-469(5110-01)-63	Satellite Control Facility: Tracking Data Sources	J. Machlis	6/7/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01)-65	Satellite Control Facility: Design Criteria for Equipment Installation	U. C. Nolte	6/1/65	U
TOR-469(5110-01)-66	Satellite Control Facility: Computer Program Design Criteria for Telemetry Software in Support of Program 572	H. M. Reynolds	4/30/65	U
TOR-469(5110-01)-72	Solar Boresighting of Prelort Radars	W. A. Sandberg	5/ /65	U
TOR-469(5110-01)-74	Satellite Control Facility, Design Criteria: Wideband Feed System for Fourteen-Foot Paraboloid Antennas at 1750-1850, 2090-2120, 2200-2300, and 2750-2950 Mc	H. N. Chait, E. M. Polzin	3/29/65	U
TOR-469(5110-01)-75, Reissue A	Satellite Control Facility: Design Criteria for Reconfiguration of STC Data Equipment, Reissue A	E. J. Benison	7/6/65	U
TOR-469(5110-01)-76	Satellite Control Facility: Computer Program Design Criteria for an Ephemeris-Oriented Orbit/Ephemeris Subsystem	D. Saadeh	5/19/65	U
TOR-469(5110-01)-77	Satellite Control Facility, Design Criteria: Improved SCF Timing System	--	6/16/65	U
TOR-469(5110-01)-78	Satellite Control Facility: Computer Program Design Criteria for IDCSP Inter-Agency Satellite Data Processing Support at the STC	A. J. Silverman	3/25/65	U
TOR-469(5110-01)-79	Analysis of VERLORT Radar Range Residuals	T. P. Gabbard	5/17/65	U

Section IV TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5110-01)-80	Calculation of Partial Derivatives of Instantaneous Inertial Position and Veloc- ity Vectors with Respect to Keplerian Elements at Epoch and Gravitational Coefficients	R. H. Gersten	5/15/65	U
TOR-469(5110-01)-81	Satellite Control Facility, Design Criteria: Addition of 2.2 Gc Capability to the T&D System at IOS and Modifi- cation of the 2.2 Gc T&D Systems at NHS and VTS	F. T. Sinnott	6/30/65	C
TOR-469(5110-01)-82	Satellite Control Facility: Design Criteria for Standardized Layout of Remote Tracking Station Data Equipment	R. W. Baker	5/7/65	U
TOR-469(5110-01)-85	TISNART (Satellite Position Self Determination)	J. Machlis	5/20/65	C
TOR-469(5110-01)-86	Radar Altimeter Subsystem	S. C. Mentzer	5/24/65	C LD
TOR-469(5110-01)-87	Mole Hole Site Evaluation Plan	M. L. Black, C. E. Daniher	6/3/65	S LD
TOR-469(5110-01)-89	Satellite Control Facility, Computer Program Design Criteria for the Generation of Mode Summaries and Trend Plotting of Telemetry Data at the STC	H. M. Reynolds	7/23/65	U
TOR-469(5110-01)-90	Launch Window Determinations	L. J. Tedeschi	10/20/65	S
TOR-469(5110-02)-2	Physical Constants for Satellite Calculations	R. J. Mercer	1/ /65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR 469(5510-65)-4	Target-Star Discrimination Techniques For Use By Satellite Interceptors	C. S. Lorens	6/25/65	S
TOR-469(5111)-1	Inputs to the Proposed System Package Plan for Program 369	--	7/17/64	C RD
TOR-469(5111)-2, Reissue A	System Requirements Document for Initial Defense Communication Satellite Program, Reissue A	--	10/19/64	S
TOR-469(5111)-3	Booster Integration Mission Require- ments Specification	K. A. Turner	5/15/65	U
TOR-469(5111-01)-1	Degradation of a Spread-Spectrum Communications System as the Result of Signal Passage Through a Hard- Limiting Repeater	J. B. Bryson	1/8/65	U
TOR-469(5111-01)-2	Program Requirements Document (PRD) Input	--	12/31/64	U
TOR-469(5111-01)-3	Initial Defense Communications Satellite Program, Orbital Requirements Document	--	2/ /65	C
TOR-469(5111-01)-4	MACS/IDCSP Telemetry Interface Document	E. T. Bobak	3/20/65	C
TOR-469(5111-01)-5	A Parametric Analysis of a Centroid Discriminator for a Rotating Phased Array	C. S. Lorens	5/21/65	U
TOR-469(5111-01)-6	The Effect of Multiple CW and FM Signals Passed Through A Hard Limiter or TWT	J. S. Sevy	6/ /65	U
TOR-469(5111-02)-1	Communicability Between a Single Polar Satellite and an Arbitrarily Located Ground Station	B. H. Billik	2/10/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5111-02)-2	Feasibility of Communications Package for SNAP 10 Secondary Payload	P. C. Finch, R. A. Skene	2/ /65	U
TOR-469(5112)-1, Rev 1	GGTS/Dispenser Interface Specification, Revision 1	R. L. Black	7/27/65	U
TOR-469(5113-41)-1, Vol I				
TOR-469(5113-41)-1, Vol II				
TOR-469(5116-10)-1	Program 624A: Titan III Launch Vehicle Monthly Performance Report	C. Wong	7/ /64	U
TOR-469(5116-10)-2	Program 624A Titan III Launch Vehicle Monthly Performance Reports	C. Wong	9/ /64	C
TOR-469(5116-10)-3	Titan Family Launch Vehicles Capabilities for Specific Missions	--	1/8/65	S
TOR-469(5116-10)-4	624A Program Review (July 1964)	--	7/20/64	U
TOR-469(5116-10)-5	624A Program Review (August 1964)	--	8/17/64	U
TOR-469(5116-10)-6	624A Program Review (September 1964)	--	9/18/64	U
TOR-469(5116-10)-7	624A Program Review (October 1964)	--	10/16/64	U
TOR-469(5116-10)-8	624A Program Review (November 1964)	--	11/15/64	U
TOR-469(5116-10)-9	624A Program Review (December 1964)	--	12/14/64	U
TOR-469(5116-10)-10	624A Program Review (January 1965)	--	1/15/65	U
TOR-469(5116-10)-11	624A Program Review (February 1965)	--	2/19/65	U
TOR-469(5116-10)-12	624A Program Review (March 1965)	--	3/11/65	U



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5116-10)-13	624A Program Review to SSD (30 April 1965)	--	4/30/65	U
TOR-469(5116-10)-14	624A Program Review to SSD (22 March 1965)	--	3/22/65	U
TOR-469(5116-10)-15	624A Program Review to SSD (14 June 1965)	--	6/14/65	U
TOR-469(5116-15)-1	Aerospace Inputs to section 6 of the Revised Titan III System Package Plan	--	2/4/65	C
TOR-469(5116-19)-1	The Martin Company Statement of Work for Facility Contract End Item Specification, Part I: Performance and Design Requirements for Titan III (Program 624A) at the WTR	--	11/12/64	U
TOR-469(5116-19)-2	United Technology Center Statement of Work for Facility Contract End Item Specification, Part I: Performance and Design Requirements for Titan III (Program 624A) at the WTR	--	11/12/64	U
TOR-469(5116-19)-3	Proposed Statement of Work for the Martin Company to Complete the Ground-System Requirements Definition for an Initial Launch Capability with Titan III Vehicle Systems at the Air Force Western Test Range	--	5/5/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5116-19)-4	Proposed Statement of Work for the United Technology Center to Define the Ground System Requirements for Titan III Solid Rocket Motor Configurations at the Air Force Western Test Range	--	5/11/65	U
TOR-469(5116-21)-1	Test Support Requirements Document for Titan III-X	--	6/1/65	C
TOR-469(5116-21)-2	Titan III-X/Agna Standard Data Book for Performance Calculations and Trajectory Simulations	--	2/1/65	C
TOR-469(5116-21)-3	Titan IIIB Standard Data Book for Performance and Trajectory Calculations	--	8/15/65	C
TOR-469(5116-22)-1	Proposed Statement of Work for Titan IIIC/MOL Stage I and II Engine Compatibility Studies	R. W. Mascolo	5/17/65	U
TOR-469(5116-42)-1	Glotrac Type G Transponder	R. W. Phelps	9/30/64	U
TOR-469(5116-42)-2	Program 624A Specification for Command Receiving Set	L. H. Mahler, G. Ducoff	12/1/64	U
TOR-469(5116-42)-3	Program 624A Reliability/Quality Assurance/Maintainability Quarterly Status Review, October Through December 1964	H. E. Frederick, S. H. Wagner	1/ /65	U
TOR-469(5116-42)-4	Program 624A Reliability/Quality Assurance/Maintainability Quarterly Status Review	H. E. Frederick, S. H. Wagner	6/ /65	U
TOR-469(5116-44)-1	Modularized Vehicle Simulation Titan III Propulsion System Model	R. K. McClean	9/21/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5116-44)-2	Gravity Computation in Cartesian Coordinates for the MVS Environmental Module	J. C. Peale	10/31/64	U
TOR-469(5116-44)-3	An Alternate Method of Obtaining Body Attitude and IMU Gimbal Angles in MVS	J. C. Peale	10/31/64	U
TOR-469(5116-44)-4	Aerospace Comments on A. C. Spark Plug Field Performance Specification (Preliminary)	J. Weldon, E. Oben	11/23/64	C
TOR-469(5116-44)-5	Program 624A Discrete List for Flight Plan II (Change No. II-D-3)	F. E. Schulte	12/15/64	U
TOR-469(5116-44)-6	Program 624A Discrete List for Flight Plan VIII (Change No. VIII-D-1)	F. E. Schulte	12/21/64	U
TOR-469(5116-44)-8	Guidance and Trajectory Analysis for a Titan IIIC/Surveyor Lunar Mission	J. E. Michaels, P. R. Schultz	2/26/65	U
TOR-469(5116-44)-9	Program 624A Discrete List for Flight Plan VII (Change No. VII-D-BL)	F. E. Schulte	3/22/65	U
TOR-469(5116-44)-10	Program 624A Flight Plan VII, Baseline Guidance Equations (Change Number VII-E-BL)	R. V. Erilane	3/24/65	C
TOR-469(5116-44)-11	Program 624A, Discrete List for Flight Plan II, Extended (Change No. II-D-5)	F. E. Schulte	4/5/65	U
TOR-469(5116-44)-12	Program 624A Discrete List for Flight Plan II, Extended (Change No. II-D-6)	F. E. Schulte	4/27/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5116-44)-13	Program 624A Discrete List for Flight Plan VII (Change No. VIII-D-2)	F. E. Schulte	4/27/65	U
TOR-469(5116-44)-14, Reissue A	Program 624A Flight Plan VII Guidance Equations, Reissue A	R. V. Erilane	8/16/65	C
TOR-469(5116-44)-16	Program 624A Discrete List for Flight Plan VIII (Change No. VIII-D-3)	F. E. Schulte	5/17/65	U
TOR-469(5116-44)-17, Rev 3	Program 624A Discrete List for Flight Plan VII (Change No. VII-D-1), Revision 3	F. E. Schulte	5/18/65	U
TOR-469(A5116-47)-1	Titan III-A Clearances from Umbilical Booms, ETR Tests 4751, 6505, 0051	D. M. Nelson, R. B. Levin	4/12/65	C
TOR-469(5116-51)-1	Program 624A Reliability/Quality Assurance/Maintainability/Quarterly Status Review	H. E. Frederick, J. H. Wagner	9/ /64	U
TOR-469(5116-53)-1	Determination of the Sun and Earth Vectors Relative to Vehicle Body Axes	J. C. Peale	4/30/65	U
TOR-469(5116-54)-2	Program 624A Mission Specification for Flight Plan I (SSLV-1)	--	11/13/64	U
TOR-469(5116-54)-3	Program 624A Mission Specification for Flight Plan IIA	--	11/25/64	U
TOR-469(5116-54)-4	Program 624A Mission Specification for Flight Plan II	--	1/15/65	U
TOR-469(5116-54)-5	Program 624A SSLV No. 2 Flight Test Engineering Analysis Report	--	12/15/64	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5116-54)-6, Reissue A	Program 624A Mission Specification for Flight Plan VII, Reissue A	--	7/5/65	U
TOR-469(5116-54)-8	Program 624A Tracking Station and Launch Pad Coordinates	--	2/1/65	S
TOR-469(5116-54)-9	Program 624A Mission Specification for Flight Plan VIII	--	2/8/65	U
TOR-469(5116-54)-10	Program 624A SSLV No. 1 Flight Test Engineering Analysis Report	--	3/1/65	C
TOR-469(5116-54)-11	Program 624A SSLV No. 3 Flight Test Engineering Analysis Report	--	7/1/65	C
TOR-469(5116-54)-12	Program 624A Mission Specification, Flight Plan IXA	--	4/30/65	U
TOR-469(5116-54)-13	Program 624A Mission Specification for Titan IIIA Vehicle SSLV-6 (Flight Plan II, Extended)	--	4/20/65	U
TOR-469(5116-54)-14	Program 624A, Flight Plan VIII, Stage 0 Burn Tracking Geometry	R. W. Phelps	5/ /65	U
TOR-469(5116-54)-15	Program 624A Mission Specification for Flight Plan VIIIA	--	7/9/65	U
TOR-469(5116-56)-1	Program 624A (Titan III) System Test Objectives for Standard Space Launch Vehicle No. 1 (AF Serial No. 65-209)	--	9/8/64	U
TOR-469(5116-56)-1	Confidential Annex to Program 624A (Titan III) System Test Objectives for Standard Space Launch Vehicle No. 1 (AF Serial No. 65-209)	--	11/8/64	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(A5116-56)-1	Program 624A QLAP Requirements, Part I	--	10/19/64	U
TOR-469(5116-56)-2	Program 624A (Titan III) System Test Objectives for Standard Space Launch Vehicle No. 3 (AF Serial No. 65-211)	--	10/16/64	U
TOR-469(A5116-56)-2, Vol I, Part II	Program 624A QLAP Requirements, Part II, Volume I	M. L. Schauer-mann	12/18/64	U
TOR-469(A5116-56)-2, Vol II, Part II	Program 624A QLAP Requirements, Part II, Volume II (SSLV-III)	M. L. Schauer-mann	2/10/65	C
TOR-469(A5116-56)-2, Vol IV, Part II	Program 624A QLAP Requirements, Part II (SSLV-VII), Volume IV	M. L. Schauer-mann	6/16/65	C
TOR-469(5116-56)-3	Program 624A Integrated Contamination Control Plan	R. Marten	4/15/65	U
TOR-469(5116-56)-6	Program 624A (Titan III) System Test Objectives for Standard Space Launch Vehicle No. 6 (AF Serial No. 65-214)	--	2/25/65	U
TOR-469(5116-56)-7	Program 624A (Titan III) System Test Objectives for Standard Space Launch Vehicle No. 7 (AF Serial No. 65-215)	--	4/15/65	U
TOR-469(5116-56)-8	Titan IIIC Solid Rocket Motor Exhaust Toxicity Analysis	L. I. Barker	6/4/65	U
TOR-469(5118-23)-1	A Proposed Checkout Philosophy and Aerospace Ground Equipment Implementation for the Space Guidance System	N. Gelbwaks	7 / 64	U

TOR-469(5120)-1

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5126-10)-1	Gemini Launch Vehicle Technical Review at SSD/Aerospace Corporation (GLV-2)	--	11/2/64	C
TOR-469(A5126-10)-1	Gemini QLAP Requirements, Part I	M. L. Schauer-mann	11/16/64	U
TOR-469(5126-10)-2	Gemini/Titan II Launch Vehicle GLV-2 (GT-2) Flight Safety Review Briefing at ETR	--	12/8/64	C
TOR-469(A5126-10)-2, Vol I, Part II	Gemini, QLAP Requirements: Volume I, Part II	M. L. Schauer-mann	4/16/65	U
TOR-469(5126-10)-3	Gemini/Titan II Launch Vehicle GLV-2 (GT-2) Second Flight Safety Review Briefing at ETR	--	1/18/65	C
TOR-469(5126-10)-4	Gemini Design Certification Report, GLV Section: Special Report for NASA Manned Spacecraft Center, Houston, Texas	--	2/19/65	U
TOR-469(A5126-10)-4	History of Gemini/Titan Launch Vehicle-2 at ETR	--	1/19/65	C
TOR-469(5126-10)-5	Gemini/Titan II Launch Vehicle GLV-3 (GT-3) Flight Safety Review Briefing at ETR	--	3/22/65	C
TOR-469(A5126-10)-5	History of Gemini/Titan Launch Vehicle-3 at ETR	--	3/23/65	C
TOR-469(5126-10)-6	Technical Review, GLV-4 at Aerospace Corporation	--	5/10/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(A5126-10)-6	History of Gemini/Titan Launch Vehicle-4 at ETR	--	6/3/65	C
TOR-469(5126-10)-7	Gemini/Titan II Launch Vehicle GLV-4 (GT-4) Flight Safety Review Briefing at ETR	--	6/2/65	U
TOR-469(A5126-10)-7	History of Gemini/Titan Launch Vehicle-5 at ETR	--	8/21/65	U
TOR-469(5126-27)-1	Performance Constraint Lines for GLV Ground Monitoring	H. Hecht	10/16/64	U
TOR-469(5126-27)-2	Gemini Ride-It-Out Modes: An Exploratory Study	R. C. K. Lee	2/10/65	C
TOR-469(5126-27)-3	General Electric Mod III Gemini Look Angle Restraints	S. H. Fabian	6/ /65	C
TOR-469(5126-30)-1	Gemini Launch Vehicle No. 2, Test 4466	E. Bellog	12/9/64	C
TOR-469(5126-30)-2	Gemini Launch Vehicle No. 2 Flight Test, PCM Reduced Telemetry Data Plots	E. M. Bellog	1/19/65	C
TOR-469(5126-30)-3	Gemini Launch Vehicle No. 3 Flight Test, PCM Reduced Telemetry Data Plots	E. M. Bellog	3/23/65	C LD
TOR-469(5126-30)-4	Gemini Test Vehicle No. 4 Pulse Code Modulated Reduced TLM Data	E. M. Bellog	6/3/65	C LD
TOR-469(5126-40)-1	Gemini Launch Vehicle Monthly Performance Report	E. H. Fallin	11/10/64	C



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5126-40)-2	Modularized Vehicle Simulation: Mathematical Model of the Radar Transformation and Conversion Equations	J. C. Peale	11/30/64	U
TOR-469(5126-40)-3	GT-2 Injection Vector Determination Accuracy	R. W. Phelps	12/ /64	U
TOR-469(5126-40)-4	Equations and Program Specifications for the Burroughs Mod III (A-1) Guidance Computer for the Third Gemini Titan Launch Vehicle (GT-3)	D. G. Frostad, A. A. Linquiti	2/11/65	C
TOR-469(5126-40)-5	Equations and Program Specifications for the Burroughs Mod III (A-1) Guidance Computer for the Fourth Gemini Titan Launch Vehicle (GT-4)	D. G. Frostad, A. A. Linquiti	4/23/65	C
TOR-469(5126-40)-6	Launch Window Estimation for Gemini Direct Rendezvous	J. P. Janus	3/10/65	C
TOR-469(5126-40)-7	Equations and Program Specifications for the Burroughs Mod III (A-1) Guidance Computer for the Fifth Gemini Titan Launch Vehicle (GT-5)	D. G. Frostad, A. A. Linquiti	6/28/65	C
TOR-469(5126-41)-2	Validation of Gemini IGS Computer Program and IGS Guidance Equations for Spacecraft GT-2	R. Noke, D. L. Driver	11/10/64	C
TOR-469(5126-41)-3	Gemini IGS Hardware Validation, Final Report	D. E. Anderson, B. Krishan, C. H. Koeckel	1/18/65	U

Section VI. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5126-42)-1	Post Flight Propulsion System Analysis of Gemini Launch Vehicle, GT-1(BEEP)Program Reconstruction	L. A. Beck, W. M. Smalley	12/2/64	C
TOR-469(5126-42)-2	Gemini Launch Vehicle Performance Report	E. H. Fallin	1/ /65	C
TOR-469(5126-42)-3	Flight Evaluation Report, NASA Mission Gemini/Titan GT-2	C. E. Agajanian	5/ /65	C
TOR-469(5126-42)-5	The Modularized Vehicle Simulation (MVS) System	R. D. Hartwick, J. H. Neally, M. J. Rademacher, V. Henderson	4/ /65	U
TOR-469(5126-42)-6	Gemini Launch Vehicle Performance Report, March 1965	E. H. Fallin	3/ /65	C
TOR-469(5126-42)-7	GLV-3 Test Evaluation Report (Quick Look)	C. E. Agajanian	4/5/65	C
TOR-469(5126-42)-8	Gemini Launch Vehicle Performance Report	E. H. Fallin	5/ /65	C
TOR-469(5126-42)-9	Flight Evaluation Report NASA Mission Gemini/Titan GT-3	C. E. Agajanian	7/ /65	C
TOR-469(5126-42)-10	GLV-4 Post Flight Evaluation Report (Quick Look)	C. E. Agajanian	6/ /65	C
TOR-469(5126-80)-1	Systems Test Objectives for Gemini Launch Vehicle, NASA Gemini Mission GT-3	L. E. Wood	12/31/64	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5126-80)-2, Amendment 1	Systems Test Objectives for Gemini Launch Vehicle, NASA Gemini Mission GT-4, Including Amendment 1	--	4/30/65	C
TOR-469(5126-80)-2, Amendment 1, Appendix A	GT-4 Trajectory Printout	--	3/8/65	C
TOR-469(5126-80)-3	Summary of Combined Systems Acceptance Test Data for GLVs -2, -3, -4	W. A. Read	4/5/65	U
TOR-469(5126-80)-4	Proposal for Gemini Rendezvous Mission Range Safety Data	--	7/1/65	U
TOR-469(5126-80)-5, Amendment 1	Systems Test Objectives for Gemini Launch Vehicle, NASA Mission GT-5, Including Amendment 1	L. E. Wood	7/7/65	C
TOR-469(5126-80)-5, Amendment 1, Appendix A	GT-5 Trajectory Printout	--	7/7/65	C LD
TOR-469(5126-81)-1	Vehicle Acceptance Report, GLV-3	S. Anderson	12/15/64	U
TOR-469(5126-81)-2	Vehicle Acceptance Report, GLV-4	S. F. Anderson	3/31/65	U
TOR-469(5126-81)-3	Gemini Launch Vehicle Acceptance Specification, SSVL Exhibit 65-1	--	2/8/65	U
TOR-469(5126-81)-4	Vehicle Acceptance Report, CLV-5	S. F. Anderson	5/15/65	U
TOR-469(5126-81)-5	Vehicle Acceptance Report, GLV-6	S. F. Anderson	7/30/65	U
TOR-469(5126-82)-2	Gemini Program Specification Tree	C. C. VanArsdale	6/4/65	U

# Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5126-90)-1	A Survey on the Handling and Storage of Electronic Parts	F. J. Fortine, D. O. Heitkamp, A. B. Oden	12/23/64	S
TOR-469(5128)-1	Current State-of-the-Art of Lead Sulfide Detectors	P. W. Shadle, F. S. Harris	11 / 64	C
TOR-469(5128)-2	Review of Project Forecast Detection and Surveillance Panel Report	D. L. Cohn	10/9/64	S
TOR-469(5128)-3	Program 461 Development Test Series (DTS-1) Performance Requirements Specification	--	10/15/64	S
TOR-469(5128)-8	An Evaluation of the LMSC System Study of October 1964	D. L. Cohn	12/14/64	S
TOR-469(5128)-9	Some Detection Set Design Considerations	D. L. Cohn	12/23/64	S
TOR-469(5128)-10	The 2.7 $\mu$ Spectral Region Earth Back-ground	D. L. Cohn	1/25/65	S
TOR-469(5128)-11	Program 461 System Tradeoff Factors	D. L. Cohn	2/26/65	S
TOR-469(5128)-12	Technical Appendix, Target Models	W. Davis, J. Hamilton	2/26/65	S RD
TOR-469(5128)-13	Some Analog Records of the Aerospace Four Color Radiometer Observations	--	3 / 65	S
TOR-469(5128)-14	Appendix 17: Control Moment Gyroscope (CMG Mod II) Characteristics	--	3/8/65	U
TOR-469(5128)-15	Pattern Recognition Algorithms Applicable to the Program 461 Data Processing Laboratory	J. P. Stenbit	4 / 65	S LD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5128)-16	Program 461 Telescope Optics	S. Brewer	7/ /65	S
TOR-469(5128)-17	Program 461 Configuration Management Plan (RTS-1)	--	7/12/65	U
TOR-469(5182)-1	Recommendations for a Work Statement: Measurement of the Radiation Pattern of the Antennas Used on Standard Launch Vehicles	H. N. Chait	7/ /64	U
TOR-469(5182)-3	Mark II Guidance Program Validation	R. J. Engert	10/14/64	S
TOR-469(5182)-4	Modularized Vehicle Simulation Titan III Structures Model	R. K. McClean	10/15/64	U
TOR-469(5182)-5	G. E. Mod III Radio Guidance Look-Angle Restrictions	S. H. Fabian	10/ /64	C
TOR-469(5182)-6	Space Systems Division/Aerospace Corporation Presentation, Atlas Space Booster SLV-3	--	9/25/64	U
TOR-469(5182)-7, Supplement A	Mark II Guidance Program Validation, Supplement A	C. F. Solberg	5/3/65	U
TOR-469(5183)-1	Gemini Agena Target Vehicle (5001) Procedure and Requirements for FACL/Acceptance	--	4/16/65	U
TOR-469(5183)-2	Gemini Agena Target Vehicle (5002 and On) Procedure and Requirements for Acceptance	--	6/15/65	U
TOR-469(5183)-3	Vehicle Acceptance Report Gemini Agena Target Vehicle (5001)	D. H. Bozarth	6/30/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5220-40)-1	Results of Flight of Electrical Conductivity/Velocity Instrument as Part of RVFP on Board Mark-6 R/V 364	A. E. Fuhs	9/15/64	S
TOR-469(5260-01)-1	Proposed Space Experiments for a Manned Orbital Laboratory	E. B. Mayfield	5/11/65	U
TOR-469(5260-20)-1	Atmospheric Density Calculations for Charged Particles Trapped in the Earth's Magnetic Field	A. R. Sims, H. S. Porjes	1/5/65	U
TOR-469(5301)-1	Program Launch Status	E. J. Field, H. D. Harris	11/1/64	S
TOR-469(5301)-2	Launch Flexibility Study: Impact of Launch Constraints on Selected Space Missions	O. A. Refling, B. P. Bayer, W. H. Cullin	7/ /64	S
TOR-469(5301)-3	Launch Flexibility Study: An Analysis of Johnston Island as a Launch Site for Space Missions	O. A. Refling, W. H. Cullin	9/ /64	S
TOR-469(5301)-4	Program Launch Status	E. J. Feild, H. D. Harris	3/26/65	S
TOR-469(5303)-1	Titan II Operation Summary	D. L. Herzstein	8/1/64	S
TOR-469(5303)-3	Program Plan Check Lists For: MIL-R-27542A, MIL-Q-9858A, MIL-M-26512C, MIL-H-27894A, and MIL-S-38130	C. S. Cleveland, E. Davy, C. C. Smith	6/1/65	U
TOR-469(5303)-4	Thor Operation Summaries	L. J. Wells	5/15/65	C
TOR-469(5303)-5	General Outline of Principles Involved in Testing	J. P. Leary	2/12/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5303)-7	Shock Spectra Analyses of Second Program 624A Payload Faring Separation	W. G. Spalthoff	7/15/65	U
TOR-469(5304)-1	Evaluation of SLV-3X Proposal	--	12/15/64	C
TOR-469(A5306)-1	Titan III ITL System Launch Facilities at Cape Kennedy	--	6/25/65	U
TOR-469(5307)-1	IDEP-I, Requirements for Participation	H. D. Hines	8/20/64	U
TOR-469(5352)-1	TRACE-C, Powered Flight Trajectory Determination Program	C. S. Christensen, A. R. Jacobsen, R. J. Mercer	5/ /65	U
TOR-469(5355)-1	NASA Supported Radiation Environment Study, Quarterly Status Report (1 June - 31 August 1964)	J. I. Vette	10/1/64	U
TOR-469(5355)-2	NASA Supported Radiation Environment Study, Quarterly Status Report (1 September - 30 November 1964)	J. I. Vette	3/15/65	U
TOR-469(5355)-3	NASA-Supported Radiation Environment Study, Semiannual Technical Report (1 June - 31 December 1964)	--	5/ /65	U
TOR-469(5355)-4	NASA-Supported Radiation Environment Study, Quarterly Status Report (1 December 1964 - 31 March 1965)	J. I. Vette	5/30/65	U
TOR-469(5501-20)-1	Determination of Orbital Parameter Errors as a Function of Injection Errors Due to Guidance for 100 N Mi, 5000 N Mi, and Synchronous Satellite Orbits	J. C. Peale	10/31/64	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5501-23)-1	Evaluation of USAF Space Objectives Document XPD-2638Z64 (April 1964)	F. S. Manov	9/25/64	S
TOR-469(5501-50)-1	Briefing: Orbital Navigation and Guidance	J. A. Aseltine	2/1/65	S
TOR-469(5501-50)-2				
TOR-469(5501-50)-3	Effects of Gravitational Perturbations on the Behavior of a Satellite in a Nominal 24-Hour Equatorial Circular Orbit	P. T. Guttman	7/ / 65	U
TOR-469(5501-81)-1	Reliability Study of Surplus Weapon System Missiles	L. J. Wells, W. E. Magruder	12/30/64	S LD
TOR-469(5501-82)-1	Bi-Communicability Between Equally- Spaced Satellites in a 24-Hour Circular Equatorial Orbit	J. E. Land	5/3/65	U
TOR-469(5510-41)-1, Vol I	Study of Utilizing Apollo for the MOL Mission, Volume I: Summary	F. C. Strible	11/6/64	C
TOR-469(5510-41)-1, Vol II	Study of Utilizing Apollo for the MOL Mission, Volume II: Subsystem Studies, Applied Mechanics Division	--	1/11/65	C
TOR-469(5510-41)-1, Vol III	Study of Utilizing Apollo for the MOL Mission, Volume III: Subsystem Studies, Electronics Division	--	11/23/64	C
TOR-469(5510-41)-2	Briefing: Apollo/MOL	--	11/30/64	C
TOR-469(5510-50)-1	Evaluation of Geodetic Capability of MOL Optical Tracking System	D. R. Speece, J. P. Janus	7/24/64	C



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5510-50)-3	Possible Use of Gemini for Early Accomplishment of MOL Experiments P-1, P-2, and P-3	F. L. Keller	8/18/64	C
TOR-469(5510-63)-1	Photo System Data Link Sensor Study	L. E. Watson	9/30/64	S
TOR-469(5510-65)-1	Work Statement for Study Phase and Development and Acquisition Phase for Program 437	I. Bekey, A. Fay	12/18/64	S
TOR-469(5510-65)-2	Program 893 Cost Information	--	2/10/65	S
TOR-469(5510-65)-3, Vol I, Reissue A	Program 922 Supporting Data Document	I. Bekey	5/24/65	S LD
TOR-469(5510-65)-3, Vol II	Appendixes, Program 922 Supporting Data Document	I. Bekey	2/23/65	S LD
TOR-469(5510-65)-3, Vol III	Appendixes, Program 922 Supporting Data Document	I. Bekey	5/28/65	S RD/LD
TOR-469(5510-81)-1	Synchronous Surveillance Sensor Design Details	R. Grove	7/ /64	S
TOR-469(5520-10)-1	Space Booster/Missile Study (Field Group Phase I Report)	A. E. Greenberg	9/8/64	S
TOR-469(5520-25)-1	Section 5: Development and Test Plans for 680A Technical Development Plan	--	8/5/64	C
TOR-469(5520-25)-2	Project Start RDT & E Estimates	D. W. Cochran	10/9/64	U
TOR-469(5520-30)-2	Briefing: Surplus Booster Study	A. Latta, J. J. Kendrick	5/17/65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5520-40)-1	Briefing: Solid Booster Application Study	E. J. Rattin, A. C. Fiedler, J. J. Dusbabek	1/22/65	C
TOR-469(5520-50)-1	Technology for Advanced Launch Vehicles	A. G. Norem	11/ /64	C
TOR-469(5520-70)-1	Preliminary Technical Development Plan for High Energy Upper Stage	--	11/20/64	C
TOR-469(5520-75)-1	Briefing: ADP-698CG Space Guidance System: Phase Ia Conclusions	--	9/25/64	S
TOR-469(5520-75)-2	Briefing: Space Guidance System Application	--	10/21/64	S
TOR-469(5527-37)-3	Preliminary Allocation of NASA Experiments to MOL Flights	R. L. Glasser	4/29/65	S
TOR-469(5527-39)-1	Pressure Suit and Extravehicular Performance Data for MOL	W. C. Hayden, R. S. Swope	2/ /65	U
TOR-469(5527-39)-1, Addendum 1	Addendum 1: Pressure Suit and Extravehicular Performance Data for MOL	R. S. Swope	3/ /65	C
TOR-469(5527-39)-2	Parametric Study of a Sea Surveillance Radar for MOL	A. W. Boekelheide	3/ /65	S
TOR-469(5527-39)-3	Detection of Ships by an Incoherent Radar from a Manned Orbiting Laboratory	P. Swerling (Consultant)	7/ /65	S
TOR-469(5530-01)-1	Solid Motor Cost Estimating Relationship Development	E. I. Friedland, J. S. Nieroski	10/23/64	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5530-01)-2	Compound Progress Curves - An Approximation to Multi-Element Learning Curves	L. Eliel	6/30/65	U
TOR-469(5530-01)-3	A Generalized Cost Model for Military Systems	L. Eliel	8/9/65	U
TOR-469(5530-30)-1	Briefing: MINIMOL Study, Final Report	--	3/5/65	C
TOR-469(5530-30)-2	Preliminary Studies, Stationary Satellite Experiment	--	5/25/65	S
TOR-469(5530-30)-4	Synchronous Surveillance	A. S. Gutman	7/ /65	S
TOR-469(5530-61)-1, Vol II	Design Studies for a DOD TMSS (Short Title), Volume II - Systems Descriptions	--	7/27/65	RD
TOR-469(5530-61)-1, Vol III	Design Studies for a DOD TMSS (Short Title), Volume III - Appendices	--	7/27/65	S
TCR-469(5530-70)-1	Missions for Gun-Launched Orbital And Suborbital Payloads	A. P. Fay	10/28/64	LD
TOR-469(5531)-1	Methods for Analyzing Communication Satellite Link Performance	F. E. Bond	6/28/65	S
TOR-469(5540-10)-1	State of the Art of Integrated Circuits	J. R. Buyan	9/10/64	U
TOR-469(5540-10)-2	A Graphical Method for the Determination of Gain Scheduling for Booster Vehicles	T. C. Coffey	10/14/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5540-10)-3	Orbit Transfer	J. M. Baker	9/22/64	U
TOR-469(5540-10)-4	Effects of Simplified Force Model on Autonomous Navigation Accuracy	I. B. Russak	9/28/64	U
TOR-469(5540-10)-5	Some Long Term Orbit Stability Observations	S. J. Cole	10/30/64	U
TOR-469(5540-10)-6	Error Analyses of Self-Contained Orbit Navigation Systems	J. P. Janus, J. L. LeMay	12/18/64	U
TOR-469(5540-10)-7	Alternatives to the Space Guidance System, Program 698CG	C. R. Welti	5/27/65	S
TOR-469(5540-10)-8	State of the Art of Inertial Components	I. K. Egashira	1/ /65	S
TOR-469(5540-10)-9	Relative Accuracies of Guidance Systems	J. C. Peale	2/ /65	C LD
TOR-469(5540-10)-10	Discrete Optimal Linear Filtering	J. S. Meditch	3/22/65	U
TOR-469(5540-10)-12	Estimation Theory: Historical Back- ground and Introduction	J. L. LeMay	3/30/65	U
TOR-469(5540-10)-13	Random Processes	L. J. Skidmore	4/2/65	U
TOR-469(5540-20)-1	Tracking of Synchronization for Anti-Jam Communication Systems	S. L. Levine	8/ /65	U
TOR-469(5540-20)-2	Homing Radar Synthesis	J. G. Barnes	8/ /65	U
TOR-469(5540-20)-3	Summary of Star Tracker Characteristics	C. Patterson	5/1/65	S LD
TOR-469(5540-20)-4	Geographic Coordination of Satellite Cloud Pictures	M. Ritter	3/ /65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5540-20)-5	Multiplexing of Digital Ranging, Telemetry, and Command Signals in an Integrated System	T. E. Stockett	5/ /65	U
TOR-469(5540-20)-6	Computer Evaluation Model Survey	L. S. Wilson	3/10/65	U
TOR-469(5560-30)-1	Space Effects on Propulsion Components	H. F. Crouch	10/26/64	LD
TOR-469(5560-30)-2	Free Vibrations of a Uniform Beam Under Constant End Tangential Thrust	P. Seide	10/29/64	U
TOR-469(5710-01)-1	State of the Art of Microprogramming	L. S. Levy	4/15/65	U
TOR-469(5730-01)-1	Program 661A: Twin-Gyro Attitude Control System Analysis	B. W. Jordan, R. J. Morra	3/15/65	U
TOR-469(5730-01)-2	An Advanced Guidance System	--	4/15/65	S
TOR-469(5730-07)-1	Space Navigation Problems: February 1965 Visit to MIT Instrumentation Laboratory	A. G. Nash, M. D. Earle	4/15/65	C
TOR-469(5730-07)-2	Horizon Phenomenology Data Gathering Experiment	C. L. Patterson, M. D. Earle, R. Dolin	7/ /65	C
TOR-469(5760-02)-1	Orbital Requirements Document, Program OV2 Satellite (OV2-1)	R. E. Vassau	12/4/64	U
TOR-469(5760-02)-3, Vol I	Technical Annex I of Exhibit "A", Follow-On OV2 Spacecraft, Contract Work Statement	--	12/29/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5760-02)-3, Vol II	Technical Annex II of Exhibit "A", Follow-On OV2 Spacecraft, Contract Work Statement	--	12/29/64	U
TOR-469(5760-02)-4	SSD/Aerospace OV2-3 Program, NRD Support Requirements	D. F. Adamski, P. A. M. Gram	6/ /65	U
TOR-469(S5801-01)-1	VAFB AMSA Demonstration: Detailed Test Objectives, ABRES Program	W. P. Downey	2/25/65	U
TOR-469(S5801-02)-1	System Test Objectives: Program 479A, Mission KX-11	J. Henry	8/17/64	S
TOR-469(S5801-02)-2, Reissue A	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-30 Flight Test, Reissue A	E. Guokas	1/ /65	S
TOR-469(S5801-02)-3	System Test Objectives: Nike Targets Measurements Program, 479A KX-25 F/T	J. Hurt	9/ /64	S
TOR-469(S5801-02)-6	System Test Objectives Program: Program 479A, Nike Target Measure- ments Program, KX-97 and KX-98 Flight Tests	E. Guokas	12/ /64	S
TOR-469(S5801-02)-7	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-40 Flight Test	E. Guokas	1/ /65	S
TOR-469(S5801-02)-8	System Test Objectives: Program 479A, Nike Target Measurement Program, KX-29 Flight Test	E. Guokas	3/ /65	S
TOR-469(S5801-02)-9	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-32 Flight Test	J. F. Vogl	4/ /65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5801-02)-10	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-27 Flight Test	E. J. Guokas	5 / 65	S
TOR-469(S5801-02)-11	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-45 Flight Test	E. J. Guokas	6 / 65	S
TOR-469(S5801-02)-13	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-41 Flight Test	E. J. Guokas	7 / 65	S
TOR-469(S5801-02)-14	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-38 Flight Test	E. J. Guokas	7 / 65	S
TOR-469(S5801-02)-16	System Test Objectives: Program 479A, Nike Target Measurements Program, KX-33 Flight Test	E. J. Guokas	8 / 65	S
TOR-469(S5801-03)-1	BSD/NXPO/GE Inertial Platform Meeting	H. C. Thoben	11/30/64	U
TOR-469(S5801-03)-4	Minutes of Fourth RMV Technical Direction Meeting	H. C. Thoben	12/29/64	S
TOR-469(S5801-03)-5	Minutes RMV KX-11 Failure Analysis Meeting	H. C. Thoben	12/29/64	U
TOR-469(S5801-03)-6	Minutes of Nike Measurements Program Working Group Meeting, Held on 6 May 1965	R. A. Rooney	5/17/65	S
TOR-469(S5805-25)-1	Fifth Technical Direction Meeting Minutes on Guidance and Control	A. B. Chatfield, G. Anderson	7/1/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5805-25)-2	Status of MMRBM Targeting and Guidance Equations	G. A. Reams	9/10/64	S
TOR-469(S5805-25)-3	Minutes of the STAFF Technical Direction Meeting	D. B. Kelsey	9/21/64	S
TOR-469(S5805-25)-5	Minutes of the STAFF Technical Direction Meeting	D. B. Kelsey	10/30/64	S
TOR-469(S5805-25)-7	Minutes of STAFF Technical Direction Meeting, 17 December 1964	D. Kelsey	1/19/65	S
TOR-469(S5805-35)-1	Minutes of Technical Direction Meeting No. 11	W. E. Ellis	7/7/64	U
TOR-469(S5805-45)-1	Minutes of Command Control Technical Direction Meeting No. 2	A. J. Osborn	10/ /64	S
TOR-469(S5805-45)-2	Special Deployment Studies of MMRBM Communication Subsystem and a Description of the Computer Simulation Models Employed	E. S. Komal	12/31/64	C
TOR-469(S5805-55)-1	Ninth Technical Directing Meeting Minutes on MMRBM Transporter/Launcher	E. B. Anderson	8/10/64	U
TOR-469(S5805-65)-1	Minutes of Mark 15 Re-entry System Technical Direction Meeting No. 10	R. Bianch	7/22/64	S
TOR-469(5805-70)-1	MMRBM Frequency Standard Evaluation	R. A. Skene	7/31/64	S
TOR-469(S5805-70)-1	System Test Objectives for Stellar Acquisition Feasibility Flights (STAFF)	S. Steele	12/ /64	S



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5805-70)-2	Minutes of LACC Technical Direction Meeting No. 12, WS 325A	T. J. O'Donnell	8/24/64	C
TOR-469(S5805-80)-1	Feasibility Study, Transportable Mid-Range Ballistic Missile	F. K. Guest	11/6/64	S RD
TOR-469(S5805-80)-2	BSD/Aerospace Evaluation of TMR3M Study Technical Report by STL, BSD-TR-64-139	F. K. Guest	11/6/64	S RD
TOR-469(S5807)-3	STAFF (Stellar Acquisition Feasibility Flights) Post-Flight Analysis Plan	W. H. Drake	4/ /65	C
TOR-469(S5807)-4	Minutes of the Background Illumination Test (BIT) Program Technical Direction Meeting Held on 24 March 1965	R. N. Buland	4/8/65	U
TOR-469(S5807)-5	Stellar Acquisition Feasibility Flight Program, Vehicle Shadow Study	J. A. Rowe	4/ /65	U
TOR-469(S5807)-7	A Guide to Flight Test Data Reporting for Stellar Acquisition Feasibility Flight (STAFF) Program	S. L. Steele	5/31/65	U
TOR-469(S5807)-8	Stellar Acquisition Feasibility Flight Number One, Flight Test Summary Report	R. Johnson	6/ /65	S
TOR-469(S5807)-9	Minutes of Stellar Acquisition Feasibility Flight, Technical Coordination Meeting of 26 May 1965	D. B. Kelsey	6/7/65	C
TOR-469(S5807)-10	Stellar Acquisition Feasibility Flight Number Two, Flight Test Summary Report	A. F. Bowen, W. H. Drake, A. L. Ljungwe, R. E. Malcho	8/ /65	S
TOR-469(S5810-01)-4	Large Payload Test Vehicle (LPTV) Study	J. F. Vogl	12/21/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-01)-10	Ignition Delay Differences Between Four Different Retro Motors	W. D. Schutt	3/26/65	C
TOR-469(S5810-01)-11, Reissue B	Complex ABRES, A-3 Demonstration: Detailed Test Objectives, Advanced Ballistic Re-entry System Program, Reissue B	W. P. Downey	7/27/65	U
TOR-469(S5810-01)-13	Discussion of the Army Re-entry Measure- ment Program: B340 and the Advanced Ballistic Re-entry System, Chemistry Test Vehicle	A. Schaffer	5/20/65	C
TOR-469(S5810-01)-15	Passive Decoy Summary Paper	H. C. Sullivan	6/30/65	S RD
TOR-469(S5810-11)-1	Preliminary Sleigh Ride/Minuteman Interface Meeting	T. P. Berg	6/17/64	S
TOR-469(S5810-11)-2	Minutes of Sleigh Ride/Mark 11A Prediction and Analysis Interim Technical Working Group Meeting	T. W. Young	7/19/64	S
TOR-469(S5810-11)-3	Minutes of the Sleigh Ride Mark 11A Joint Working Group Avco/Sandia Interface Meeting	R. W. Young	9/30/64	S RD
TOR-469(S5810-11)-4	Advanced X-Ray Program Plan	T. Berg	10/20/64	S RD
TOR-469(S5810-11)-5	Minutes of the 9th Sleigh Ride Mark 11A Program, Avco Technical Direction Meeting	R. W. Young	9/26/64	S RD
TOR-469(S5810-11)-6	Minutes of the Sleigh Ride Mark 11A Structural Dynamics Technical Sub-Working Group Meeting	R. W. Young	11/2/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-11)-10	Minutes of the 2nd Sleigh Ride /GE Technical Direction Meeting	R. MacIntyre	3/2/65	S RD
TOR-469(S5810-11)-11	Minutes of Sleigh Ride Mark 11A Subjoint Working Group Meeting (19 January 1965)	R. Young	3/3/65	S RD
TOR-469(S5810-11)-13	Minutes of the Eleventh Sleigh Ride Mark 11A Program, Avco Technical Direction Meeting	R. Young	3/10/65	S
TOR-469(S5810-11)-14	Minutes of Sleigh Ride Mark 11A Program, Aero/Thermal Technical Working Group Meeting, Held on 20/21 January 1965	R. Young	3/25/65	S
TOR-469(S5810-11)-15	Minutes of the Third Sleigh Ride /GE Technical Direction Meeting, Held on 30/31 March 1965 at GE/RSD	R. T. MacIntyre	4/16/65	S RD
TOR-469(S5810-11)-16	Minutes of the Twelfth Sleigh Ride, Mark 11A Program, Avco Technical Direction Meeting, Held 7/8 April 1965	R. W. Young	5/7/65	S
TOR-469(S5810-11)-17	Minutes of the Joint Test Working Subgroup of Project Sleigh Ride, Held on 11 May 1965	F. S. Howell	5/20/65	S
TOR-469(S5810-11)-18	Minutes of the First General Dynamics /Convair Atlas E/F Readiness Booster Technical Direction Meeting	L. U. Hurley	6/2/65	S
TOR-469(S5810-11)-20	Minutes of the Thirteenth Sleigh Ride Mark 11A Program, Avco Technical Direction Meeting, 9/10 June 1965	R. W. Young	6/25/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-11)-21	Minutes of the Sleigh Ride Mark 11A Program Joint Subworking Group Meeting, Held on 25 June 1965	R. W. Young	7/15/65	S RD
TOR-469(S5810-11)-22	Minutes of the Fourth Sleigh Ride/GE Technical Direction Meeting, Held on 16 June 1965 at Aerospace SBO	T. P. Berg	7/15/65	S
TOR-469(S5810-11)-23	Minutes of the Mark 12 Sleigh Ride Prediction and Analysis Sub-Working Group Meeting of 26 May 1965	T. P. Berg	7/7/65	S
TOR-469(S5810-12)-2	Minutes of the First BSD/Aerospace Reshnehc Technical Direction Meeting	A. Schmidt	11/6/64	C
TOR-469(S5810-12)-4	Minutes of the First BSD/Aerospace SPINE Coordination Meeting	R. B. Mortensen	12/16/64	C
TOR-469(S5810-12)-5	Minutes of the Second BSD/Aerospace HARTS Technical Direction Meeting	A. E. Schmidt	2/20/65	C
TOR-469(S5810-12)-6	Minutes of the Third BSD/Aerospace HARTS Technical Direction Meeting (25/26 February 1965)	R. B. Mortensen	3/ /65	C
TOR-469(S5810-12)-7	Vulnerability and Hardening Summary Paper	R. G. Fowler	2/15/65	S RD
TOR-469(S5810-12)-8	Minutes of the Ballistic Systems Division/ Aerospace/Massachusetts Institute of Technology Technical Direction Meeting, Held 30 March 1965	W. E. Schorr	4/8/65	C
TOR-469(S5810-12)-10	Consolidated Plan for Vulnerability and Hardening of Ballistic Missile Re-entry Systems	W. E. Schorr	5/1/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-12)-11	Minutes of the Second Simulation Program: Investigating Nuclear Effects (SPINE), Technical Coordination Meeting, Held 9 April 1965	A. E. Schmidt	5/20/65	S
TOR-469(S5810-12)-12	Minutes of the Fourth Ballistic Systems Division/Aerospace Hardening Technology Studies (HARTS), Technical Direction Meeting, Held 12/13 May 1965	R. B. Mortensen	5/21/65	C
TOR-469(S5810-12)-13	Dust/Rain Program Plan	R. Meedham	5/26/65	S
TOR-469(S5810-12)-15	Minutes of the Fifth Ballistic Systems Division/Aerospace Hardening Technology Studies (HARTS) Technical Direction Meeting, 30 June/1 July 1965	R. B. Mortensen	7/12/65	S RD
TOR-469(S5810-12)-16	Minutes of the Ballistic Systems Division/Aerospace/Massachusetts Institute of Technology Technical Direction Meeting, Held on 20 July 1965	R. A. Needham	7/29/65	C
TOR-469(S5810-20)-1	Minutes of Fuzing and Arming Test Evaluation (FATE), Technical Direction Meeting No. 1, Held on 6 May 1965	B. A. Smith	5/ /65	S
TOR-469(S5810-20)-3	Minutes of Second Technical Direction Meeting Investigation of Surface Fields (Backscatter) Program, Held on 17 June 1965	H. Katzman	6/23/65	C
TOR-469(S5810-21)-1	System Test Objectives: Program 627A, Low Observable Re-entry Program LORV-5 Flight Test	J. Hurt	8/ /64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-21)-3	System Test Objectives: Program 627A, Low Observable Re-entry Program LORV-4 Flight Test	J. Hurt	10/ /64	S
TOR-469(S5810-21)-6	System Test Objectives: Program 627A, Low Observable Re-entry Program, LORV-7 Flight Test	J. Hurt	1/ /65	S
TOR-469(S5810-21)-7	Preliminary Fluid Mechanics Post Flight Analysis of LORV-3	F. Li	3/ /65	S
TOR-469(S5810-21)-8	System Test Objectives: Program 627A, Low Observable Re-entry Program, LORV-6 Flight Test	J. Hurt	3/ /65	S
TOR-469(S5810-21)-10	Minutes of the Sixteenth LORV Technical Direction Meeting	J. H. Hill	2/4/65	S
TOR-469(S5810-21)-11	First Low Observable Re-entry Vehicle 2A/Atlas Interface Meeting	J. B. Blyler	4/14/65	S
TOR-469(S5810-21)-12	System Test Objectives: Program 627A, Low Observable Re-entry Vehicle Program, LORV-2A Flight Test	J. Hurt	5/ /65	S
TOR-469(S5810-22)-2	Minutes of the Eleventh RVIP Technical Direction Meeting	A. C. Bacon	3/ /65	S
TOR-469(S5810-22)-3	Minutes of the Twelfth Re-entry Vehicle Instrumentation Program, Technical Direction Meeting, Held 7 May 1965	A. C. Bacon	5/13/65	S
TOR-469(S5810-23)-1	Hazard Analysis for an Atlas D Missile with a Medium Lofted Trajectory to the WAC Kwajalein Target Point	K. S. Davis	3/9/65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-23)-1	Minutes of WAC 4/5 Technical Review on 18 June 1964	W. B. Otto	7/10/64	S
TOR-469(S5810-23)-2	Minutes of the Tenth STL/WAC Technical Direction Meeting	W. B. Otto	9/9/64	S
TOR-469(S5810-23)-3	Minutes of the Eleventh WAC/STL Technical Direction Meeting	W. B. Otto	9/10/64	S
TOR-469(S5810-23)-5	Minutes of the WAC 4 and 5 Atlas Interface Meeting	W. D. Cutler	12/1/64	S
TOR-469(S5810-23)-6	Minutes of the Eleventh WAC/GE Technical Direction Meeting	H. Thoben	1/4/65	S
TOR-469(S5810-23)-8	Minutes of the Twelfth Wake Analysis and Control/General Electric Technical Direction Meeting	H. C. Thoben	2/23/65	S
TOR-469(S5810-23)-9	Minutes of the Wake Analysis and Control Program (WAC-5), Thirteenth Direction Meeting, Held on 8/9 June 1965	R. C. Scott	6/25/65	S
TOR-469(S5810-24)-1	Meeting Minutes of the Technical Working Group to Review the Requirements for the MOD IV Pem Gas Ejection System	C. H. Mills	12/29/64	U
TOR-469(S5810-24)-2	Minutes of the First Mod IV Pem-Atlas Interface Technical Working Group Meeting	W. D. Cutler	1/6/65	U
TOR-469(S5810-24)-3	Minutes of the Second Mod IV Pem-Atlas Interface Working Group Meeting	W. D. Cutler	1/28/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-24)-4	Minutes of the MOD IV Payload Ejection Mechanism/Atlas Interface Specification Signoff Meeting	W. D. Cutler	5/7/65	U
TOR-469(S5810-24)-5	Minutes of the First MOD IV Payload Ejection Mechanism/Atlas Interface Meeting	W. D. Cutler	5/4/65	U
TOR-469(S5810-24)-6	Minutes of the MOD IV Payload Ejection Mechanism, Third Design Review Meeting	F. E. Hoeke	5/14/65	U
TOR-469(S5810-24)-7	Minutes of the MOD IV Payload Ejection Mechanics Site Operations Working Group Meeting	W. D. Cutler	6/14/65	U
TOR-469(S5810-24)-8	Minutes of MOD IV Payload Ejection Mechanics Working Group Meeting	F. E. Hoeke	5/26/65	U
TOR-469(S5810-24)-9	Comments Concerning MOD IV Payload Ejection Mechanism, Fourth Design Review Meeting	F. E. Hoeke	6/1/65	U
TOR-469(S5810-25)-1	System Test Objectives: Program 627A Materials Test Vehicle, Program MTV-1 Flight Test	J. Hurt	11/ /64	S
TOR-469(S5810-25)-2	System Test Objectives: Program 627A MTV-2 Flight Test	J. Henry	12/ /64	S
TOR-469(S5810-25)-3	System Test Objectives: Common Link Launch Vehicle for Orbital Vehicle 1/ Aerospace Research Support, Program 850B, Flight Test No. 1	J. F. Vogl	4/ /65	S



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-25)-4	System Test Objectives: Common Link Vehicle for Orbital Vehicle 1/Aerospace Research Support Program 850B, Flight Test No. 2	J. F. Henry	7/ /65	C
TOR-469(S5810-26)-1	Minutes of Avco/RAD REST Technical Direction Meeting of 18/20 August 1964 at Wilmington, Massachusetts	F. Fitzgerald	9/ /64	C
TOR-469(S5810-26)-3	Avco/RAD Re-entry Environment and System Technology Program (REST) Meeting, Held 17/20 May 1965	F. Fitzgerald	6/ /65	C
TOR-469(S5810-27)-1	Technical Direction Meeting on Advanced Re-entry Program (ARP) with General Electric	F. F. Fitzgerald	7/17/64	C
TOR-469(S5810-27)-2	Minutes of General Electric ARP Technical Direction Meeting, Held 19/21 October at San Bernardino, California	F. Fitzgerald	11/ /64	C
TOR-469(S5810-27)-3	Avco/RAD Re-entry Environment and System Technology Program (REST) Meeting of 23-25 November, 1964	F. F. Fitzgerald	1/ /65	C
TOR-469(S5810-27)-5	Advanced Re-entry Program: Technical Direction Meeting Minutes of 20/22 January 1965	R. G. Allen	2/ /65	C
TOR-469(S5810-27)-6	Avco/RAD Re-entry Environment and System Technology Program (REST) Meeting, Held 17/19 February 1965	R. G. Allen	4/ /65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-27)-7	Advanced Re-entry Program, Technical Direction Meeting Minutes of April 20/22, 1965	F. F. Fitzgerald	5/ /65	C
TOR-469(S5810-29)-5	High Altitude Wake Analysis	F. L. Fernandez	6/ /65	S
TOR-469(S5810-30)-3	Advanced Ballistic Re-entry Systems (ABRES) Large Payload Test Vehicle (LPTV) Planning Estimate for White Sands Missile Range	S. W. Booth	4/1/65	U
TOR-469(S5810-30)-4	Minutes of the Large Payload Test Vehicle System Tradeoff and Performance Working Group Meeting	W. D. Schutt	3/31/65	U
TOR-469(S5810-30)-5	Large Payload Test Vehicle, First Technical Direction Meeting Minutes	W. D. Schutt	4/ /65	U
TOR-469(S5810-30)-6	Minutes of the Large Payload Test Vehicle System Tradeoffs and Performance Working Group Meeting, Held 23 April 1965	W. D. Schutt	4/ /65	U
TOR-469(S5810-30)-7	Large Payload Test Vehicle Special Meeting of Support Working Group, Held on 23 April 1965	G. M. Tyner	4/27/65	U
TOR-469(S5810-30)-8	Large Payload Test Vehicle Site Selection and Evaluation, Special Meeting Minutes, Held on 21 April 1965	W. D. Schutt	5/6/65	U
TOR-469(S5810-30)-9	Large Payload Test Vehicle, Second Technical Direction Meeting Minutes	W. D. Schutt	5/21/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-30)-10	Large Payload Test Vehicle, Third Technical Direction Meeting Minutes	J. Robinson	6/24/65	U
TOR-469(S5810-30)-10, Addendum	Large Payload Test Vehicle, Third Technical Direction Meeting Minutes, Addendum	J. Robinson	6/24/65	C
TOR-469(S5810-31)-1	Electromagnetic Interference Tests on Athena C Configuration	T. L. Gottier	9/1/64	U
TOR-469(S5810-31)-1	System Test Objectives: Athena Program, Avco LORV S-3 Flight Test	T. W. Gilbert	7/10/64	S
TOR-469(S5810-31)-2	Minutes of the Athena Steering Committee	W. D. Schutt	7/17/64	U
TOR-469(S5810-31)-4	First Athena/Navy - CCF Technical Interface Meeting	T. H. Gilbert	8/10/64	C
TOR-469(S5810-31)-5	Second Athena/Navy - CCF Technical Interface Meeting	T. H. Gilbert	8/17/64	C
TOR-469(S5810-31)-6	Minutes of the Thirteenth Technical Direction Meeting, Athena Program	J. Robinson	8/17/64	U
TOR-469(S5810-31)-7	Minutes of First Athena/AMRAD Interface Meeting	M. Norsworthy	8/17/64	U
TOR-469(S5810-31)-8	System Test Objectives: Athena Program, Avco Mark 11 Mod B Payload	M. Norsworthy	10/1/64	S
TOR-469(S5810-31)-9	Flight Summary Report for Athena Flight 002	W. Teeter	9/8/64	U
TOR-469(S5810-31)-10	Guidance and Performance Working Group Meeting of 3 September 1964	R. A. Mills	9/25/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-31)-11, Reissue A	System Test Objectives: Athena Program Avco/LORV S-5 Flight Test, Reissue A	T. Gilbert	1/29/65	S
TOR-469(S5810-31)-12	System Test Objectives: Athena Program General Electric Mark 12 Payload	J. Pipp	10/5/64	S
TOR-469(S5810-31)-13	Minutes of the Fourteenth Technical Direction Meeting, Athena Program	J. Robinson	9/30/64	U
TOR-469(S5810-31)-14	Evaluation of ARC Proposed Configuration Changes to the Athena to Provide Adequate Static Stability with the AMRAD Payloads	J. J. Jerger	10/ /64	U
TOR-469(S5810-31)-15	Minutes of Sixth Athena/LORV Technical Interface Meeting	T. H. Gilbert	10/23/64	S
TOR-469(S5810-31)-16	Guidance and Performance Working Group Meeting	M. Murphy	10/22/64	U
TOR-469(S5810-31)-17	Third Athena/Navy-CCF Technical Interface Meeting	T. H. Gilbert	11/6/64	C
TOR-469(S5810-31)-18	Technical Investigation Athena Attitude Control System	A. Gelernter	11/2/64	U
TOR-469(S5810-31)-19	First Athena/LMSC Facilities Interface Meeting	T. W. Gilbert	10/21/64	U
TOR-469(S5810-31)-20	First Athena/RECM Technical Interface Meeting	T. W. Gilbert	11/17/64	S
TOR-469(S5810-31)-21	Athena/Navy-EX Pre-Interface Meeting	T. W. Gilbert	11/20/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-31)-22	Minutes of the Fifteenth Technical Direction Meeting, Athena Program	J. Robinson	11/23/64	U
TOR-469(S5810-31)-23	Athena Environmental Definition Meeting	M. J. Norsworthy	12/21/64	U
TOR-469(S5810-31)-25	Systems Test Objectives: Athena Program, U.S. Navy/LMSC Wake Investigation (CCF)	M. J. Norsworthy	12/1/64	S
TOR-469(S5810-31)-26	Minutes of Aerospace/Honeywell Meetings on Athena Attitude Controller Rate Gyro Test Philosophy and Specifications	A. Gelernter	12/2/64	S
TOR-469(S5810-31)-27	Systems Test Objectives: Athena Program, Avco Chaff Payload 1	G. Tyner	1 / 65	S
TOR-469(S5810-31)-30	Study of Effects of Two Winter Winds on Athena "C" and "D" Configuration Flights	A. D. Hiemenover	3/2/65	U
TOR-469(S5810-31)-32	Revised Mark I Meteorological Loop Simulation Subsystem Design Specifications	C. H. Tuller	2/18/65	U
TOR-469(S5810-31)-33	Athena Payload Capability Summary	S. W. Booth	4 / 65	U
TOR-469(S5810-31)-34	Flight Summary Report for Athena Flight 5-D001-C01	J. Pipp	3/1/65	U
TOR-469(S5810-31)-35	Flight Summary Report for Athena Flight 12-D003-P04	W. L. Teeter	2/26/65	U
TOR-469(S5810-31)-36	Minutes of the Seventeenth Technical Direction Meeting, Athena Program	J. Robinson	3 / 65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-31)-37	Minutes of Athena/ECM Technical Interface Meeting on 25 February 1965	G. Tyner	3/5/65	U
TOR-469(S5810-31)-39	Flight Summary and Final Report, Athena Flight 3-A003-B01	W. D. Schutt	3/4/65	U
TOR-469(S5810-31)-41	Minutes of the Eighteenth Technical Direction Meeting, Athena Program	W. D. Schutt	3/ /65	U
TOR-469(S5810-31)-42	Summary of the Third BSD/Navy/ERDAW (Electronics Research and Development Activity, White Sands) Meeting, Held 30 March 1965	W. D. Schutt	4/15/65	U
TOR-469(S5810-31)-43	Minutes of the Systems Analysis and Mission Requirements Working Group, Athena Program, Held on 12 April 1965	K. L. Freeman	4/ /65	U
TOR-469(S5810-31)-44	Minutes of the Special Ground Systems Working Group Meeting, Held 21 April 1965 (Athena Program)	W. D. Schutt	5/ /65	U
TOR-469(S5810-31)-45	Athena Guidance and Performance Working Group Meeting, Held 26, 27, 28 April and 5 May 1965	M. H. Murphy	5/17/65	U
TOR-469(S5810-31)-46	System Test Objectives: Athena Program, Avco Chaff Payloads 2 and 3	G. M. Tyner	6/ /65	S
TOR-469(S5810-31)-47	Minutes of the Nineteenth Technical Direction Meeting, Athena Program, Held on 20 May 1965	J. Robinson	6/ /65	U
TOR-469(S5810-31)-48	Second Athena/Navy-Wire Technical Interface Meeting, Held on 26 May 1965	T. Gilbert	6/ /65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-31)-49	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Athena System Requirements	K. Freeman	6/15/65	U
TOR-469(S5810-31)-50	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Athena Program Schedule	K. Freeman	6/15/65	S
TOR-469(S5810-31)-51	Minutes, Fourth Athena Aeronutronic Division of Philco-Precursor Electronic Countermeasures Technical Interface Meeting, Held on 25 May 1965	T. Gilbert	6/15/65	C
TOR-469(S5810-31)-52	Minutes Of The Athena/Electronic Countermeasure (ECM) Technical Interface Meeting Held On 29 June 1965 At Green River, Utah	G. M. Tyner	7/15/65	U
TOR-469(S5810-31)-53	Flight Summary Report for Athena Flight 14-B001-Q01, 22 June 1965	T. W. Gilbert	7/22/65	S
TOR-469(S5810-31)-54	Flight Summary Report for Athena Flight 13-B002-Q02, 21 June 1965	T. W. Gilbert	7/27/65	S
TOR-469(S5810-32)-1	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Avco Mark 11	K. Freeman	6/15/65	S
TOR-469(S5810-32)-2	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, General Electric Mark 12	K. Freeman	6/15/65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-34)-1	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Athena System Requirements, Navy - CCF	K. Freeman	6/15/65	C
TOR-469(S5810-34)-2	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Navy - WIRE	K. Freeman	6/15/65	S
TOR-469(S5810-34)-3	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Navy - PX2 Dc	K. Freeman	6/15/65	S
TOR-469(S5810-34)-4	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Navy - DFC	K. Freeman	5/15/65	S
TOR-469(S5810-34)-5	Second Athena/Navy-EX Technical Interface Meeting, Held on 8 April 1965	T. W. Gilbert	4/20/65	C
TOR-469(S5810-35)-1	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, ADP-PECM	K. Freeman	6/15/65	S
TOR-469(S5810-35)-2	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, ADP-RECM	K. Freeman	6/15/65	S
TOR-469(S5810-41)-1	Summary of the Advanced Re-entry Vehicle Technical Direction with Giannini Controls Corporation	L. O. Mertz	8/6/64	S



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-41)-2	Summary of the Advanced Fuzing Program: Technical Direction Meeting with Avco/RAD of August 1964	L. O. Mertz	8/ /64	S
TOR-469(S5810-41)-4	Summary of the Advanced Re-entry Vehicle Fuzing System (ARVFS), Technical Direction Meeting of 23 October with Giannini Controls Corporation	L. O. Mertz	11/ /64	S
TOR-469(S5810-41)-5	Minutes of Fresh Fuze System, Technical Direction Meeting No. 1 of 26 October 1964	D. Lee	11/9/64	S
TOR-469(S5810-41)-8	Summary of the Advanced Re-entry Vehicle Fuzing System (ARVFS) Technical Direction Meeting of 21 December with Giannini Controls Corporation	L. O. Mertz	12/ /64	S
TOR-469(S5810-41)-10	Minutes of Fresh Fuze System, Technical Direction Meeting No. 2	D. Lee	3/ /65	S
TOR-469(S5810-41)-11	Summary of the Advanced Fuzing Program, Technical Direction Meeting of 11 February 1965 with Avco/RAD	A. M. Garblik	3/ /65	S
TOR-469(S5810-41)-12	Minutes of Fresh Fuze System Technical Direction Meeting No. 3, Held on 21 April 1965	D. Lee	5/ /65	S
TOR-469(S5810-41)-13	Summary of the Advanced Fuzing Program, Technical Direction Meeting of 22/23 April 1965	D. Lee	5/ /65	S
TOR-469(S5810-41)-14	Effects of Fuzing Accuracy on Weapon Performance Overpressure Targets	J. W. Farschon	6/ /65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-41)-16	Minutes of the First Vehicle Impact Structural Analyses (VISTA) Technical Direction Meeting, Held on 11 May 1965	R. B. Fling	6/15/65	C
TOR-469(S5810-44)-1	Third Technical Direction Meeting of the TERSE Program	J. T. Morita	8/11/64	S
TOR-469(S5810-44)-2	Fourth Technical Direction Meeting of the TERSE Program	J. T. Morita	9/9/64	S
TOR-469(S5810-44)-3	Fifth Technical Direction Meeting of the TERSE Program	J. T. Morita	10/ /64	S
TOR-469(S5810-44)-4	Sixth Technical Direction Meeting of the TERSE Program	J. T. Morita	12/ /64	S
TOR-469(S5810-44)-5	Seventh Technical Direction Meeting of the Terminal Sensor Experimental Program	J. T. Morita	3/ /65	C
TOR-469(S5810-44)-8	Final Report on Terminal Fixing and Homing Systems Study	J. T. Morita	10/ /65	S RD
TOR-469(S5810-45)-1	Technical Direction Meeting Minutes, Defense Research Corporation System Analysis Program, Held 8/9 October 1964	J. T. Morita	10/ /64	S
TOR-469(S5810-45)-1	Minutes of Technical Direction Meeting, DRC Systems Analysis Program	S. Sokolsky	2/16/65	S RD
TOR-469(S5810-45)-2	Summary of the Penetration Systems Analysis, Technical Direction Meeting with Defense Research Corporation	A. Riedler	11/13/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-45)-4	Minutes of DRC Penetration Systems Analysis, Technical Direction Meeting of 8 March, Held at Santa Barbara, California	R. D. Riedler	3/ /65	S RD
TOR-469(S5810-45)-5	End Game Analysis Summary Paper	S. Sokolsky	3/ /65	S RD
TOR-469(S5810-45)-7	Minutes of Defense Research Corporation Penetration Systems Analysis Technical Direction Meeting, Held 19 April at Aerospace Corporation, San Bernardino, California	A. D. Riedler	5/ /65	S RD
TOR-469(S5810-45)-9	Minutes of Defense Research Corporation Penetration Systems Analysis Technical Direction Meeting, Held 15 June 1965	A. D. Riedler	6/ /65	S RD
TOR-469(S5810-47)-2	Summary and Minutes of the Computer and Age Technical Direction Meeting	R. Palmer	9/24/64	C
TOR-469(S5810-47)-3	Operations Requirements, No. F1716 (OR No. 1) MBRV Drop Tests at San Nicolas Island	R. G. Gorman	12/10/64	S
TOR-469(S5810-47)-5	Minutes of the Second GD/A MBRV Booster Technical Direction and Design Review Meeting	L. U. Hurley	2/2/65	C
TOR-469(S5810-47)-6	Minutes of the Fourth MBRV Interface Meeting	W. P. Downey	3/8/65	C
TOR-469(S5810-47)-8, Reissue A	Maneuvering Ballistic Re-entry Vehicle (MBRV) Drop Test Criteria, Program 627A, Reissue A	R. Gorman	7/2/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-47)-9	Seventh Maneuvering Ballistic Re-entry Vehicle, El Centro Drop Test, Planning Working Group Meeting Minutes, 15 April 1965	B. Yengst	5/7/65	U
TOR-469(S5810-47)-10	Sixth El Centro Parachute Drop Test Working Group Meeting Minutes	D. S. Soulek	5/11/65	U
TOR-469(S5810-47)-11	Eighth El Centro Parachute Drop Test Working Group Meeting Minutes	D. S. Soulek	5/11/65	U
TOR-469(S5810-47)-12	Maneuvering Ballistic Re-entry Vehicle High Altitude Drop Test. Number 1, Post-Test Briefing	D. S. Soulek	6/14/65	U
TOR-469(S5810-47)-13	Operations Requirements, No. F1716 (OR No. 1) MBRV Drop Tests, Helicopter Drop - Immediate Recovery	R. Gorman	7/2/65	U
TOR-469(S5810-47)-14	Operations Requirements, No. F1716 (OR No. 1) MBRV Drop Tests, Helicopter Drop - 72 Hour Flotation	R. Gorman	7/2/65	U
TOR-469(S5810-47)-15	Summary Report of Technical Working Group Meeting on MBRV/Atlas Countdown Integration	C. M. Okerstrom	7/15/65	U
TOR-469(S5810-48)-1	Minutes of First Technical Direction Meeting on Boost Glide R/V Vehicle Feasibility Flight Program	R. Sheffer	2/18/65	S
TOR-469(S5810-48)-2	Minutes of BGRV/Atlas Interface Meeting	E. H. Siniard	3/1/65	C
TOR-469(S5810-48)-3	Minutes of the Second Boost Glide Re-entry Vehicle Technical Direction Meeting	R. Cogle	3/16/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR--469(S5810-48)-4	Minutes of the Second Boost Glide Re-entry Vehicle Interface Meeting	L. A. Hurley	4/13/65	C
TOR--469(S5810-48)-5	Boost Glide Re-entry Vehicle (BGRV) Interface Technical Working Group Meeting	J. B. Blyler	5/19/65	S
TOR--469(S5810-51)-1	Active Countermeasures Summary Paper	R. P. Smith	3/1/65	S
TOR--469(S5810-51)-2	Minutes of Thirteenth Technical Direction Meeting, Electronic Countermeasures Feasibility Flight Program, Held on 1 April 1965	J. G. Weiss	4/26/65	U
TOR--469(S5810-51)-4	Minutes of Fourteenth Technical Direction Meeting, Electronic Countermeasures Feasibility Flight Test Program, Held on 2 June 1965	J. G. Weiss	6/10/65	U
TOR--469(S5810-51)-5	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Athena System Requirements, Sperry - ECM	K. Freeman	6/15/65	S
TOR--469(S5810-52)-2	Minutes of the Twentieth Chaff Technical Direction Meeting, Held on 30/31 March 1965	S. D. Huffman	4/20/65	S
TOR--469(S5810-52)-3	Advanced Ballistic Re-entry Systems (Athena) at White Sands Missile Range, Program Requirements Document 39000, Avco - Chaff	K. Freeman	6/15/65	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-52)-5	Minutes of the Twenty-First Chaff Technical Direction Meeting, Held on 15/16 June 1965	J. Link	6/28/65	S
TOR-469(S5810-53)-2	Minutes of the First Technical Direction Meeting, Defense Radar Degradation System (DRADS) Feasibility Demonstration, Held on 5 May 1965	S. D. Huffman	5/18/65	S
TOR-469(S5810-53)-3	Minutes of the Second Technical Direction Meeting, Defense Radar Degradation System (DRADS) Feasibility Demonstration Program, Held on June 16/17, 1965	I. S. Riggs	6/22/65	S
TOR-469(S5810-70)-1	Summary of Second DFC Technical Direction Meeting with Helidyne Corporation	G. Shuster	11 / /64	U
TOR-469(S5810-70)-2	Minutes of Terminal Radiation Program (TRAP 7), Preliminary Design Review	E. L. Miller	5/6/65	U
TOR-469(S5810-70)-3	Minutes of the Avco Terminal Radiation Program, Technical Direction Meeting	E. L. Miller	5/26/65	S
TOR-469(S5810-70)-4	Minutes of General Electric Terminal Radiation Program (TRAP) Technical Direction Meeting	E. L. Miller	5/19/65	U
TOR-469(S5810-70)-5	Minutes of the Terminal Radiation Program (TRAP 7) Aircraft Modification Meeting	E. L. Miller	6/22/65	U
TOR-469(S5810-72)-1	First DCF Technical Direction Meeting with Helidyne Corporation	J. L. Miller	9/22/64	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-72)-4	Radar Observables Significant to Discrimination Techniques of Slender Re-entry Vehicles	R. G. Fowler	1/25/65	S
TOR-469(S5810-72)-5	Seventh Data Correlation Facility Technical Direction Meeting with Heliodyne Corporation	J. L. Miller	6/22/65	S
TOR-469(S5810-73)-1	The Aerospace Corporation Cine Film Calibration Test	E. B. Turner	7/ /65	U
TOR-469(S5810-73)-1	Minutes of General Electric/Terminal Radiation Program Technical Direction Meeting	H. C. Sullivan	4/8/65	S
TOR-469(S5810-73)-2	Minutes of Avco/Terminal Radiation Program Technical Direction Meeting	H. C. Sullivan	4/8/65	S
TOR-469(S5810-73)-3	Summary Report on the Optical Observables of Slender Re-entry Vehicles	E. Miller	6/7/65	S
TOR-469(S5810-73)-4	Minutes of Terminal Radiation Program (TRAP 7) Technical Direction Meeting	E. L. Miller	6/29/65	U
TOR-469(S5810-74)-1	Angle Tracking Performance of Stallion L-Band Radar	B. Henshall	4/16/65	U
TOR-469(S5810-95)-1	Minutes of Fourth Technical Direction Meeting, Film Radar Absorbing Materials Program, Held on 15 June 1965	H. G. Katzman	6/24/65	C
TOR-469(S5810-97)-2	Re-entry Design Parameter Summary Paper	J. W. Farschon	6/ /65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-97)-3	Minutes of the First CRESS Working Group Meeting	R. E. Clauser	3/ /65	S RD
TOR-469(S5810-97)-4	Combined Re-entry Efforts in Small Systems - Systems Analysis Study	H. N. Cohen	5/ /65	S RD
TOR-469(S5810-97)-5	Minutes of the Second Combined Re-entry Efforts on Small Systems Working Group Meeting	S. D. Huffman	4/16/65	S RD
TOR-469(S5810-97)-6	Minutes of the Third Combined Re-entry Efforts on Small Systems (CRESS) Working Group Meeting	W. S. Jackson	5/ /65	S RD
TOR-469(S5810-97)-7	Minutes of the Fourth Combined Re-entry Efforts on Small Systems (CRESS) Working Group Meeting, Held on 17 June 1965	W. S. Jackson	6/30/65	S RD
TOR-469(S5810-97)-8	Minutes of the Fourth Combined Re-entry Efforts on Small Systems (CRESS) Sub-working Group "B" Meeting, Held on 15 July 1965	W. S. Jackson	7/29/65	S RD
TOR-469(S5810-99)-1	Design Summary of the ICBM-X Missile	W. H. Emrick	2/17/65	S
TOR-469(S5810-99)-2	ECM Component Technology for Re-entry Vehicle Penetration Aids	S. D. Huffman	1/11/65	S
TOR-469(S5810-99)-3, Reissue A	Chaff Vulnerability Report, Reissue A	R. G. Allen, J. Lowry	7/16/65	S RD
TOR-469(S5810-99)-4	USAF Re-entry Vehicle Mark 6 Data Summary	W. S. Jackson	1/15/65	S RD
TOR-469(S5810-99)-5	USAF Re-entry Vehicle Mark 11/11A Data Summary	W. S. Jackson	1/15/65	S RD



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-99)-6	USAF Re-entry Vehicle Mark 12 Data Summary	W. S. Jackson	1/15/65	S RD
TOR-469(S5810-99)-7	USAF Re-entry Vehicle Mark 17 Data Summary	W. S. Jackson	1/15/65	S RD
TOR-469(S5810-99)-8	Analysis of the Free-Space Radar Cross-Section of the Mark 11/11A, Mark 12, and CRESS Re-entry Vehicles	R. V. Attarian	1/ /65	S RD
TOR-469(S5810-99)-9	Range-Payload Performance of the LGM-30F Missile	W. Emrick	1/27/65	S
TOR-469(S5810-99)-10	Re-entry System Characteristics of USAF Mark 6 and Mark 11/11A Systems	W. S. Jackson	2/ /65	S
TOR-469(S5810-99)-11	Chaff Summary Paper	J. N. Constant	2/1/65	S RD
TOR-469(S5810-99)-12	Reliability Summary of Current and Programmed Strategic Missile Systems for the Pen-X Study	R. A. Frantic	3/9/65	S
TOR-469(S5810-99)-13	Strategic Weapon Systems Data Summary Report	A. Gaylord	3/18/65	S
TOR-469(S5810-99)-14	USN Programmed Forces Data Summary Report	A. Gaylord	3/13/65	S RD
TOR-469(S5810-99)-15	USAF Force Improvements Data Summary Report	A. Gaylord	3/12/65	S RD
TOR-469(S5810-99)-16	USN Force Improvements Data Summary Report	A. Gaylord	3/12/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5810-99)-18	Small Rocket Ejection of Pen Aid Canisters (Pen-X Study)	S. D. Huffman	3/2/65	S RD
TOR-469(S5810-99)-19	Free-Space Radar Cross-Section of the Mark 17 Re-entry Vehicle	S. D. Huffman	3/2/65	S
TOR-469(S5810-99)-20	Summary of Strategic Missile Guidance Concepts and Accuracies	R. J. McGrath	3/12/65	S
TOR-469(S5810-99)-21	Pen-X Chaff Summary	S. D. Huffman	3/ /65	S RD
TOR-469(S5810-99)-22	Study of Passive Decoys for Re-entry Systems	W. Jackson	3/ /65	S RD
TOR-469(5810-99)-23	Arming and Fuzing Summary	S. D. Huffman	3/3/65	S RD
TOR-469(S5810-99)-24	Stage Disposal Capability of Strategic Missile Systems	W. Emrick	3/12/65	S
TOR-469(S5810-99)-25, Reissue A	Vulnerability and Hardening Summary, Reissue A	S. D. Huffman	8/ /65	S RD
TOR-469(S5811-01)-1	Mark 12 Re-entry System Environmental Design and Test Criteria	C. J. Moening	3/8/65	S RD
TOR-469(S5811-01)-2	Minutes of the Fifth Mark 12 System Safety Subgroup Meeting	M. Kamhi	4/14/65	S RD
TOR-469(S5811-20)-1	Mark 12 Meeting Minutes, Vulnerability and Hardening Subworking Group, Meeting No. 8	S. W. Kash	4/9/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5811-20)-2	Minutes of the Sixth Mark 12 System Safety Subgroup Meeting, Held 14/15 April 1965	M. Kamhi	5/12/65	S RD
TOR-469(S5811-20)-3	Mark 12 Tapestry Planning Meeting Minutes	B. D. Walker	5/7/65	S RD
TOR-469(S5811-20)-4	Minutes of the Seventh Mark 12 System Safety Subgroup Meeting, Held on 4/5 May 1965	R. B. Coble	5/10/65	S RD
TOR-469(S5811-20)-5	Reliability Assessment Testing Committee Minutes, 18/19 May 1965	J. D. Cuzzolino	6/28/65	S RD
TOR-469(S5811-20)-6	Mark 12 Meeting Minutes, Vulnerability and Hardening Subworking Group Meeting No. 9	P. Nordin, B. D. Walker	7/16/65	S RD
TOR-469(S5811-30)-1	MIR V Summary Paper	R. Daniels	1/ /65	S RD
TOR-469(S5851)-1	Instrumentation Records for Telemetry Design and Development	R. Wilson	3/5/65	U
TOR-469(S5851)-2	Integrated Range Safety System	W. R. Hedeman	2/15/65	S
TOR-469(S5853)-1	Reliability Information and Monitoring System: A Pilot Study	S. H. Brooks	12/ /64	U
TOR-469(S5855-20)-1	Accuracy Status Report for 1970-1975 San Bernardino Operations	E. J. Samario	12/21/64	S
TOR-469(S5855-20)-2	Data Link Limitation Effects in Remote Sensor Evaluation	N. B. Nichols	3/8/65	U

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5855-20)-3	High Speed Computation of ICBM Free-Flight Trajectories	H. J. Wertz	5/ /65	U
TOR-469(S5855-20)-4	Accuracy Status Report for 1970-1975, Number 2	A. B. Chatfield	7/1/65	S
TOR-469(S5855-30)-1	Program for the Determination of Structural Loads on a Re-entry Vehicle	D. Schermerhorn	3/ /65	RD/LD
TOR-469(S5855-30)-2	Fixed Base Ground Systems Survivability (A Selected Summary of Available Data Recommendations for Its Improvement)	S. Italia	4/ /65	S
TOR-469(S5855-30)-3	Status and Potential of Thixotropic Propellants	B. L. Taylor	2/ /65	RD
TOR-469(S5855-30)-4	Summary of Presentation Material, Base Flow Conference	B. L. Taylor	4/1/65	C
TOR-469(S5855-30)-5	Analysis of Random Vibrations with the Aid of Optical Systems	Ching-u Ip	5/ /65	U
TOR-469(S5855-30)-6	Re-entry Vehicle Boundary Layer Control	J. A. Quinville	6/30/65	U
TOR-469(S5855-40)-1	Nuclear Design Criteria	J. Bond	7/14/65	S
TOR-469(S5855-50)-1	RAKOT - General Three Degrees of Freedom Trajectory Simulation	S. L. Schubert, K. A. Langford	6/ /65	RD
TOR-469(S5855-50)-2	Optimum Solid Propellant Booster Systems for Ballistic Missile Applications	F. E. Augustine, R. S. Frost	7/ /65	U
				C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5855-80)-1	Identification, Prediction, and Prevention of Human Error in Missile and Space Systems	I. Rattinger	11/19/64	U
TOR-469(S5855-80)-1	Nuclear Weapons Technology	J. W. Bond	12/ /64	S RD
TOR-469(S5855-80)-2	Electromagnetic Pulse	J. W. Bond	2/1/65	S RD
TOR-469(S5855-80)-3	RVX: Results and Conclusions of a Meeting Held at Aerospace Corporation, San Bernardino, December 28/30, 1964	J. W. Bond	1/ /65	S RD
TOR-469(S5855-80)-4	Selective Studies Relating to Thermal Survivability	J. W. Bond	1/ /65	S
TOR-469(S5855-80)-5	Thermo-Mechanical Effects in Radiation Shields	E. K. Henry	1/5/65	S RD
TOR-469(S5855-80)-6	Secondary Effects on Re-entry Vehicles of Neutrons and Gamma Rays	T. A. Bergstrahl	2/ /65	S RD
TOR-469(S5855-80)-7	Electromagnetic Fields Resulting from a Nuclear Burst	J. H. Batdorf	3/ /65	S
TOR-469(S5855-80)-8	Large Distance X-Ray Deposition in the Atmosphere	T. A. Bergstrahl	4/15/65	S
TOR-469(S5855-80)-9	Note on Gamma-Ray Enhancement of Nuclear Weapons	C. L. Longmiere	5/15/65	S RD
TOR-469(S5855-80)-10	Thermal Shock from Nuclear Irradiation	K. A. Brueckner	6/17/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5855-90)-1	Concepts and Techniques in Weapon System Cost Analysis	F. W. Erickson	6/ /65	C
TOR-469(S5921-10)-1	Study of Advanced Payloads for Minuteman	J. Eylar, G. Milburn	6/26/64	S RD
TOR-469(S5921-10)-2	Minutes of First Joint Meeting, Advanced Shock Isolation System Feasibility Studies	J. H. Friedman	8/17/64	U
TOR-469(S5921-10)-3	Minutes of Technical Coordination Meeting, Shock Isolation System Feasibility Studies	J. H. Friedman, T. Alley	9/1/64	U
TOR-469(S5921-10)-5	Shock Isolation System Feasibility Studies - TCM	J. H. Friedman	11/6/64	U
TOR-469(S5921-10)-6	Minutes of Second Joint Meeting Advanced Shock Isolation System Feasibility Studies	J. H. Friedman	11/6/64	U
TOR-469(S5921-10)-7	Design and Analysis Study of Multiple Independently Targetable Re-entry Vehicle (MIRV)	F. Spain	11/ /64	S
TOR-469(S5921-40)-1	Chart of Account	H. Coleman	8/14/64	U
TOR-469(S5921-40)-2	A Preliminary Investigation into the Use of Mines, Tunnels, and Natural Earth Cavities for Superhard Basing	H. Coleman	8/7/64	C
TOR-469(S5921-40)-4	Vulnerability Number Calculations for Titan II and Minuteman Weapon Systems	C. W. Hartsell	4/15/65	S
TOR-469(5921-43)-1	Hard-Mobile Systems Guidance and Navigation Studies	B. W. Sine	7/31/64	S LD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(5921-43)-2	A Study of Self-Alignment Gyrocompassing Utilizing Angular Momentum Modulation for Torque Bias Compensation	B. W. Sine	8/30/65	S
TOR-469(S5921-60)-1	Hard Point Defense, First Progress Report	W. T. Long	10/16/64	S RD
TOR-469(S5922-10)-1	Free-Flight Gravitational Potential Model for the Advanced Targeting Study	S. Levine	10/16/64	S
TOR-469(S5922-11)-1	A Method of Using Multiple Guidance Systems to Reduce CEP	S. Levine	7/ /64	C
TOR-469(S5923-02)-1	A Study of the Effectiveness of Advanced Minuteman Weapons Systems	J. Eylar	12/ /64	S RD
TOR-469(S5923-06)-2	Minutes of Technical Direction Meeting No. 1: High Performance, Large Motor Demonstration Test Firing Program, Held 3/4 June 1965	L. J. Bornstein	6/14/65	C
TOR-469(S5923-28)-1	Annex II, U. S. MIRV Technology	E. Knight	1/15/65	S RD
TOR-469(S5923-30)-1	Preliminary Notes on Pendulous Integrating Gyroscopic Accelerometer (PIGA) Field Calibration	R. W. Kafka	12/ /64	U
TOR-469(S5923-30)-2	Minutes, SABRE Computer Software Working Group Meeting No. 4	P. Colen	5/19/65	U
TOR-469(S5923-30)-3	Minutes, UNIVAC Program Review and Technical Direction Meeting	P. Colen	5/20/65	C

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5923-30)-5	Nuclear Environment Criteria for Advanced Guidance Systems	T. A. Bergstrahl	6/15/65	S RD
TOR-469(S5923-36)-1	Command and Control for the Semi-Mobile ICBM	M. B. Adelson	3/4/65	S
TOR-469(S5923-36)-2	Parametric Study for Deception Basing	E. D. Fullenwider	3/ /65	C
TOR-469(S5923-37)-2	Project Golden Arrow "Annex E": Weapon Systems	M. White	5/ /65	S RD
TOR-469(S5923-37)-3	Project Golden Arrow "Annex B" Technology	M. White	5/ /65	S RD
TOR-469(S5923-38)-1	Hard-Point Defense Status Report	C. W. Hartsell	4/13/65	S RD
TOR-469(S5923-40)-1	Final Evaluation of the Industry Study "Hard and Fixed Basing Concepts for Advanced Missile Systems with Large Payloads" - Contractor, TRW Space Technology Laboratories	H. B. Coleman	7/23/65	S RD
TOR-469(S5923-42)-1	Survey of Transporters for Missile Basing	S. Ros	5/1/65	S RD
TOR-469(S5923-46)-1	MRBM's in the Pacific	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix A	MRBM's in the Pacific: Appendix A, Candidate and Comparison Missile Systems	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix B	MRBM's in the Pacific: Appendix B, Subsystem Alternates	P. Stevens	6/15/65	S RD



Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5923-46)-1, Appendix C	MRBM's in the Pacific: Appendix C, Operational Considerations	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix D	MRBM's in the Pacific: Appendix D, Effectiveness Analysis	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix E	MRBM's in the Pacific: Appendix E, Intelligence	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix F	MRBM's in the Pacific: Appendix F, Personnel Subsystem	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-1, Appendix G	MRBM's in the Pacific: Appendix G, Logistic Concepts	P. Stevens	6/15/65	S RD
TOR-469(S5923-46)-2	Western Pacific Deployment Study of a Mobile Simulcast Communication Sub- system	K. C. Reed, E. N. Skomal	7/ /65	S
TOR-469(S5923-49)-2	High-Acceleration Missile Concept	H. Kaufman	3/ /65	S
TOR-469(S5923-50)-2	Aerospace Corporation Evaluation of the Air Transportable Missile System Study by Boeing Company	E. Hinz	2/12/65	S RD
TOR-469(S5923-54)-1	Quick Reaction Evaluation of McDonnell and United Aircraft Industry Studies of Future ICBM Objectives	J. E. Pounelli	1/4/65	S RD
TOR-469(S5923-54)-2	Aerospace Corporation Evaluation of the McDonnell Aircraft Company and United Aircraft Company Studies of Future ICBM Systems Objectives	B. R. Bertrando	1/29/65	S RD

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5923-54)-3, Vol I	Study of Post-Strike Decision Aid Systems, Volume I: Systems Evaluation	R. G. Wilson	7/1/65	S	RD
TOR-469(S5923-60)-1	Quick Reaction Evaluation of the Raytheon and Hughes Industry Studies of the Role of the ICBM in Intermediate Scale Warfare	J. E. Pournelle	12/23/64	S	S
TOR-469(S5923-60)-2	Aerospace Corporation Evaluation of the Raytheon and Hughes Industry Studies of the Role of the ICBM in Intermediate Scale Warfare	B. R. Bertrando	1/4/65	S	
TOR-469(S5923-60)-3	Data Package for the Industry Study of an ICBM System for Intermediate Scale Warfare	M. B. Adelson	6/ /65	S	
TOR-469(S5923-63)-1	Aerospace Corporation Quick Reaction Evaluation of the Hughes Aircraft Company and Raytheon Company Industry Studies of the Role of the ICBM Under Arms Control	B. R. Bertrando	1/5/65	S	
TOR-469(S5923-63)-2, Reissue A	Command and Control Communications for the Pacific Theater, Reissue A	R. G. Lorence	6/ /65	S	
TOR-469(S5923-64)-1	Evaluation and Summary of Post-Strike Decision Aids Studies	M. Adelson	1/8/65	S	RD
TOR-469(S5923-64)-2	Communications Satellite Requirements for Ballistic Missile Systems	M. Goldsmith	4/ /65	S	
TOR-469(S5923-75)-1	Post-Launch Defense Against Submarine- Launched Ballistic Missiles	A. M. Odok	4/16/65	S	RD
TOR-469(S5923-75)-2	Optimum Re-entry Vehicle Patterning Probability of Kill ( $P_K$ ) Tables	R. J. Hobson	6/ /65	U	

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(S5923-86)-1	Potential Range Error Limit for a Pulse Radar	N. B. Nichols	2/ /65	U
TOR-469(S5923-86)-2	Refraction Effects on the Accuracy of a Range Change Measuring System	N. B. Nichols	2/23/65	U
TOR-469(S5923-93)-1	Ballistic Missile Booster Capability Projections Derived By Analytical Scaling and Sensitivity Analysis	A. Zukerman	8/ /65	S
TOR-469(S5923-98)-1	Project Golden Arrow: A United States Air Force Air Staff Study of Ballistic Missile System Costs	R. E. Fricks	4/1/65	S RD
TOR-469(S5951-24)-1	Gravitational Field Knowledge Effects During the Boost Phase of an ICBM Flight	S. Levine	9/ /64	C
TOR-469(S5951-24)-2	CEP Degradation of Inertially Guided Missile System Due to Circumvention Hardening	J. Benveniste	2/23/65	S RD
TOR-469(S5951-30)-1	Computer Memories for Missileborne Applications	R. N. Constant	5/ /65	U
TOR-469(S5951-45)-1	Digitally Controlled Receiver	R. G. Wilson	3/ /65	U
TOR-469(9990)-1	Homing Guidance (A Tutorial Report)	J. P. Janus	12/10/64	U
TOR-469(S9990)-1	Aerospace Corporation FY 1966-1967 Support to BSD, Project 649D	J. E. Roeber	4/16/65	C
TOR-469(9990)-2	Briefing: Planning for a Military Space Plan	--	12/17/64	S

Section IV. TECHNICAL OPERATING REPORTS (Continued)

TOR-469(9990)-4	The Application of Integrated Circuitry to Spacecraft Electronic Systems	J. B. Bryson	1/ /65	U
TOR-469(9990)-5	Inertial, Radio, and Strapdown Guidance Systems Error Analysis for Titan III	C. R. Welti	3/25/65	S LD
TOR-469(9990)-6	MRBM Communication System Analysis	L. Norwood	6/ /65	S

# Section V. TECHNICAL DOCUMENTARY REPORTS

TDR-469(5102)-1				
TDR-469(5106-05)-1	Feasibility of Using Titan IIIC in the Vela Satellite Program	J. W. Kytola	4/1/65	S
TDR-469(5107-40)-1	A Theory of Suboptimal Data Filtering for Space Navigation	J. S. Meditch	3/31/65	U
TDR-469(5110-01)-1	Range Rate and Antenna Angle Data Evaluation Study	A. Grossman, D. E. Regan	12/ /64	U
TDR-469(5110-01)-2	Performance and Characteristics of 67.2 Ft Extended Skirt Canopy Parachute with Single Conical Extension	H. K. Epple	4/1/65	U
TDR-469(5111-01)-1	Design Differences Between Military and Commercial Communication Satellites	W. L. Pritchard, N. MacGregor	12/ /64	U
TDR-469(5111-01)-2	An Application of PERT/Cost in R&D Management	A. T. Finney, H. Silver	5/30/65	U
TDR-469(5111-01)-3	Error Analysis of a Circular Direction Array for a Synchronous Satellite	H. E. King, R. L. Mitchell	12/ /65	U
TDR-469(A5116-56)-2, Vol III, Part II	Program 624A, QLAP Require- ments (SSLV-VI), Volume III, Part II	M. L. Schauerman	5/4/65	C
TDR-469(5116-57)-1	Titan III Ground Checkout Data Transmission System	J. P. Janis	4/1/65	U
TDR-469(5210-10)-1	Reactions of NO <sub>2</sub> with Metal Fluorides	R. S. Tunder	9/30/64	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5210-10)-4	Research and Experimentation: Chemical Propulsion (1 July - 30 September 1964)	L. Schieler	11/30/64	U
TDR-469(5210-10)-5	Syntheses and Reactions of 5-Alkyl-4-amino-3-hydrazino- s-triazoles	H. H. Takimoto, G. C. Denault, S. Hotta	5/ /65	U
TDR-469(5210-10)-6	Solubilities of O <sub>2</sub> , NO, and N <sub>2</sub> O <sub>3</sub> in Liquid N <sub>2</sub> O <sub>4</sub>	E. T. Chang, N. A. Gokcen, C. D. Robison	5/ /65	U
TDR-469(5210-10)-7	Thermal Decompositions of 2-Azidobenzylideneamines and Benzylidene-2-Azidoanilines	L. Krebechek, H. Takimoto	6/ /65	U
TDR-469(5210-10)-8	Thermodynamic Data for Ionized Combustion Products	E. A. Cook	6/ /65	U
TDR-469(5220-10)-2	The Radiation Field of an Electric Dipole Antenna in a Conical Sheath	A. Banos, R. H. Huddleston, D. C. Pridmore- Brown, E. C. Taylor	10/30/64	U
TDR-469(5220-10)-3	Transmission and Reflection of Electromagnetic Waves by a Hot Plasma	E. C. Taylor	11/30/64	U
TDR-469(5220-10)-4	Effect of a Finite Conical Plasma Sheath on the Radiation Field of a Dipole	D. C. Pridmore- Brown	6/21/65	U
TDR-469(5220-10)-5	Radiation from a Waveguide Aperture Covered by a Thin Plasma Layer	K. E. Golden	9/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5220-20)-1	Radiation from a Fully Ionized Gas at the Plasma Frequency	E. C. Taylor	10/15/64	U
TDR-469(5220-20)-2	Brownian Motion Model of Nonrelativistic Quantum Mechanics	G. G. Comisar	1/30/65	U
TDR-469(5220-20)-3	On the Landau Solution of the Plasma Oscillation Problem	E. C. Taylor	6/20/65	U
TDR-469(5220-20)-4	A Spectrometer for Investigation for Far-Infrared Plasma Emission	J. G. Wood	7/ /65	U
TDR-469(5220-20)-5	Theory of the Stimulated Raman Effect in Plasmas	G. G. Comisar	8/ /65	U
TDR-469(5230-11)-1	The Effect of Doping on Gold Diffusion in Germanium	M. F. Millea	5/ /65	U
TDR-469(5230-11)-2	The Effect of Heavy Doping on the Diffusion of Impurities in Silicon	M. F. Millea	5/ /65	U
TDR-469(5230-11)-3	The 1.0- and 1.28-eV Emission from GaAs Diodes	M. F. Millea, L. W. Aukerman	7/ /65	U
TR-469(5230-25)-1	Field Emission from Atoms in Intense Optical Fields	E. R. Peressini	8/ /65	U
TDR-469(5230-33)-1	Experimental Performance of Anhydrous Ammonia	D. J. Griep	10/12/64	U
TDR-469(5230-33)-2	Low Thrust Reaction Jet Performance	H. Greer, D. J. Griep	8/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5230-33)-3	Kearfott Leveler F 2412 Additional Experiments	H. F. Owens, D. W. Brotemarkle	7/ /65	U
TDR-469(5230-37)-1	On Derivations and Properties Of Stokes' Gravity Formula	L. de Witte	5/ /65	U
TDR-469(5230-41)-1	2.8-Minute Beamwidth, Millimeter-Wave Antenna: Measurement and Evaluation	E. Jacobs, H. E. King	3/26/65	U
TDR-469(5230-41)-2	Propagation Through the Atmosphere at a Wavelength of 3.3 mm	F. I. Shimabukuro	6/ /65	U
TDR-469(5230-41)-3	Military Applications of Millimeter-Wave Technology	B. J. DuWaldt, A. W. Rihaczek	4/ /65	S
TDR-469(5230-41)-4	Observations of Planets and Quasi-stellar Radio Sources at 3 mm	E. E. Epstein	9/ /65	U
TDR-469(5230-41)-6	Propagation Factors at 3.2 Millimeters	L. A. Hoffman, H. J. Wintroub, W. A. Garber	10/ /65	U
TDR-469(5230-42)-1	Error Correcting Performance Attainable by Convolution Encoding: Final Report	W. Altar	9/ /65	U
TDR-469(5230-43)-1	Optimum Filters for Signal Detection in Clutter	A. W. Rihaczek	3/5/65	U
TDR-469(5230-43)-2	Measurement Properties of the Chirp Signal	A. W. Rihaczek	8/ /65	U



Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5230-45)-1	Thin-Film-Whisker Diode	C. J. Carter, E. H. Eakle, W. A. Garber	7/ /65	U
TDR-469(5240-10)-1	Research and Experimentation: Aerodynamics Program (1 July - 30 September 1964)	J. F. Mullen	4/5/65	U
TDR-469(S5240-10)-1	Combustion in Initially Unmixed Reactants for One-Step Reversible Chemical Kinetics	P. Chung, F. Fendell	2/15/65	U
TDR-469(5240-10)-2	Research and Experimentation: MHD Wind Tunnel Program, Semiannual Technical Report (1 January - 30 June 1964)	W. R. Grabowsky	4/5/65	U
TDR-469(S5240-10)-2	Air Induced Ground Shock One Dimensional Theory	S. Batdorf	10/ /65	U
TDR-469(5240-10)-3	Incompressible Momentum Integral Boundary Layer Solution Relating to Shock Tube Test Time	H. Mirels, W. S. King	12/29/64	U
TDR-469(S5240-10)-3	Theory of Electrostatic Double Probe Comprised of Two Parallel Plates	P. M. Chung	4/ /65	U
TDR-469(5240-10)-4	Stagnation Point Langmuir Probe Measurements in a Supersonic Argon Plasma Flow	K. E. Starner	2/23/65	U
TDR-469(5240-10)-7	Structural Influence Coefficients for a Redundant System Including Beam-Column Effects: Analytical Development and Computational Procedure	W. P. Rodden, E. F. Farkas, G. L. Commerford	4/17/65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5240-10)-8	Thrust Termination Effect on MMRBM Payload Separation	R. L. Varwig, G. L. Commerford	5/ /65	U
TDR-469(5240-10)-9	A Simplified Method for Dynamic Stress Analysis of Axially Symmetric Solid Propellant Grains	J. P. Jones, J. S. Whittier	11/ /65	U
TDR-469(5240-10)-12	Momentum Integral Solution for Shock Tube Test Time	H. Mirels, W. S. King	6/ /65	U
TDR-469(5240-10)-13	A Seven Foot Diameter Shock Tube for Transonic and Supersonic Aerodynamic Testing	R. L. Varwig, L. Rosenman	6/ /65	U
TDR-469(5240-10)-14	Low Frequency, Large Amplitude Fluctuations of the Laminar Boundary Layer	W. S. King	6/ /65	U
TDR-469(5240-10)-15	Series Solutions for Shock Tube Laminar Boundary Layer and Test Time	H. Mirels, W. S. King	6/ /65	U
TDR-469(5240-10)-16	The Snapping of a Shallow Sinusoidal Arch under a Step Pressure Load	M. H. Lock	7/ /65	U
TDR-469(5240-10)-18	Axially Symmetric Wave Propagation in a Two-Layered Cylinder	J. S. Whittier, J. P. Jones	10/ /65	U
TDR-469(5240-20)-1	Absorption Coefficients of Cl <sub>2</sub> at High Temperatures	T. A. Jacobs, R. R. Giedt	11/15/64	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5240-20)-2	Research and Experimentation: Aerophysics Program, Semiannual Progress Report (1 July - 30 September 1964)	M. Epstein	5/ /65	U
TDR-469(5240-20)-3	Measurements of Ultraviolet Emission from Rocket Exhaust Plumes with in situ Determined Atmospheric Corrections	T. A. Jacobs, R. R. Giedt, W. G. Gaskill, W. W. Taylor	9/ /65	S
TDR-469(5240-20)-4	Radiative Transfer Between Two Concentric Spheres Separated by an Absorbing and Emitting Gas	I. L. Ryhming	2/1/65	U
TDR-469(5240-20)-5	Scattering of Ultraviolet Light in the Lower, Marine Atmosphere	T. A. Jacobs, R. R. Giedt	2/22/65	U
TDR-469(5240-20)-6	Low Reynolds Number Flow of a Dissociated Gas about a Catalytic Cylinder	J. R. Lloyd, R. A. Hartunian	3/8/65	U
TDR-469(5240-20)-7	Blast Wave Impingement on a Slender Wedge Moving at Hyper- sonic Speeds	G. R. Inger	3/25/65	U
TDR-469(5240-20)-8	Application of the Method of Matched Asymptotic Expansions to Unsteady, Diffusing, Reacting Flows	G. Emanuel	5/ /65	U
TDR-469(5240-20)-9	A Model of the Boltzmann Collision Integral for Mixtures of Light and Heavy Particles	M. Epstein	6/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5240-20)-10	The Kinetics of Decomposition of Hydrogen-Fluoride in Shock Waves	T. A. Jacobs, R. R. Giedt, N. Cohen	6/ /65	U
TDR-469(5240-20)-11	Probe for Measuring Ion Density in a Slightly Ionized High Speed Flow	F. C. T. deBoer	7/ /65	U
TDR-469(5250-10)-1	Thermal Expansion of BeO-SiC Composites	W. J. Gardner	10/15/64	U
TDR-469(5250-10)-2	A Comparison of the Fracture-Toughness Properties of Two Motor Case Steels	S. F. Frederick	10/12/64	U
TDR-469(5250-10)-3	Thermal Expansion of Titanium, Zirconium, and Hafnium Carbides to 2700 °C	J. H. Richardson	10/30/64	U
TDR-469(5250-10)-4	Dynamic Microstrain of Niobium	R. D. Carnahan, G. A. Stone	3/15/65	U
TDR-469(5250-10)-5	Laser Damage of Materials	R. F. Schneidmiller, J. H. Richardson	11/ /65	U
TDR-469(5250-10)-6	Nozzle Materials for Chemical Propellant Rocket Engines: A Review	E. G. Kendall	3/22/65	U
TDR-469(5250-10)-7	Thermal Diffusivity Measurement Technique for Very High Temperature	J. Kaspar, E. H. Zehms	12/30/64	U
TDR-469(5250-10)-8	Alloy and Dispersion Strengthening by Powder Metallurgy	J. E. White	3/25/65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5250-10)-9	Development of Oxidation Resistant Tungsten-Base Alloys	J. E. White	4/9/65	U
TDR-469(5250-10)-10	A Metallurgical Evaluation of Various Commercial Infiltrated Tungsten Materials in Air and Nitrogen Plasmas	J. E. White, D. H. Leeds	5/1/65	U
TDR-469(5250-10)-11	A New Class of Hypereutectic Carbide Composites	E. G. Kendall, J. I. Slaughter, W. C. Riley	6/ /65	U
TDR-469(5250-20)-1, Vol I	Photolysis of Low Temperature Glasses, Volume I: Ethanol and Ether at 77°K	H. S. Judeikis, S. Siegel	6/ /65	U
TDR-469(5250-20)-1, Vol II	Photolysis of Low Temperature Glasses, Volume II: Temperature and Oxygen Effects in Ethanol and Ether	H. S. Judeikis, S. Siegel	6/ /65	U
TDR-469(5250-20)-2	Quantum Efficiency of the 2537-A Photolysis of a Mixed Phenyl-Methyl Polysiloxane	S. Siegel, R. J. Champetier, A. R. Calloway	9/ /65	U
TDR-469(5250-20)-3	The Method of "Magnetophotoselection" of the Lowest Excited Triplet State of Aromatic Molecules	M. A. El-Sayed, S. Siegel	10/ /65	U
TDR-469(5250-30)-1	Nuclear Magnetic Resonance Studies on the Hindered Rotation in Dimethylformamide: Solvent Effect	A. G. Whittaker, S. Siegel	9/10/64	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5250-30)-2	Effect of External Heavy Atoms on Decay Processes from the Triplet State	S. Siegel, H. S. Judeikis	11/16/64	U
TDR-469(5250-30)-3	Blast Loading Tests of Conical Shells	R. M. Cooper, A. F. DiGiacomo	11/24/64	U
TDR-469(5250-30)-4	Dynamic Response of Conical Shells	R. M. Cooper, A. F. DiGiacomo	5/ /65	U
TDR-469(5250-30)-5	An EPR Study of the Biphotonic Nature of the Solute Sensitized Photodecomposition of Poly-dimethylsiloxane	S. Siegel, H. Judeikis	2/26/65	U
TDR-469(5250-30)-6	Description of Ballistic Range Tests to Study the Effects of a Blast Field on a Re-entry Vehicle	A. E. Schmidt	9/ /65	U
TDR-469(5250-40)-1	High Temperature Degradation of Phenolic-Carbon	F. M. Wachi, D. E. Gilmartin	10/28/64	U
TDR-469(5250-40)-2	The Reaction of Oxygen Atoms with $C_2F_4$	D. Saunders, J. Heicklen	2/15/65	U
TDR-469(5250-40)-3	A Critique of Internal Insulation Materials for Solid Propellant Rocket Motors and Their Effect on Missile Performance	C. Toscano, V. F. Hribar	1/15/65	U
TDR-469(5250-40)-4	The Multiplicity of $CF_2$	J. Heicklen, D. Saunders, N. Cohen	12/30/64	U
TDR-469(5250-40)-5	The Mercury-Photosensitized Oxidation of Perfluoropropene	V. Knight, J. Heicklen	2/15/65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5250-40)-7	The Mercury-Photosensitized Decomposition of Perfluoropropene	J. Heicklen, V. Knight	2/15/65	U
TDR-469(5250-40)-8	The Reaction of Oxygen Atoms with Perfluoropropene	D. Saunders, J. Heicklen	2/26/65	U
TDR-469(5250-40)-9	Reactions of $\text{NO}$ ( $\text{A}^2\Sigma^+$ ) with $\text{H}_2$ , $\text{CH}_4$ , and $\text{C}_2\text{H}_6$ : The Fate of $\text{RNO}$	J. Heicklen	3/15/65	U
TDR-469(5250-40)-10	Mercury-Photosensitized Isomerization of Perfluorobutene-2	D. Saunders, J. Heicklen	2/22/65	U
TDR-469(5250-40)-11	The Chlorine-Atom Initiated Polymerization of $\text{C}_2\text{F}_4$	D. G. Marsh, J. Heicklen	3/10/65	U
TDR-469(5250-40)-12	Photolysis of $\text{CF}_3\text{I}$ in the Presence of $\text{O}_2$ and $\text{NO}$	J. Heicklen	5/ /65	U
TDR-469(5250-40)-13	Photolysis of $\text{C}_2\text{F}_3\text{I}$ in the Presence of $\text{NO}$ and $\text{O}_2$	J. Heicklen	5/ /65	U
TR-469(5250-40)-15	Photolysis of Fluorotrichloromethane	D. G. Marsh, J. Heicklen	7/ /65	U
TDR-469(5250-40)-16	An Investigation of the Tetrafluoroethylene-Oxygen Flame	J. E. Colwell, F. M. Wachi	8/ /65	U
TDR-469(5250-40)-17	Nuclear Magnetic Resonance Studies of Solvent Effects on the Hindered Internal Rotation in N, N-Disubstituted Amides - Higher Alkyl Amides	A. G. Whittaker, S. Siegel	9/ /65	U
TDR-469(5250-40)-18	The Reaction of Ozone with Perfluoroolefins	J. Heicklen	8/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5250-40)-19	The Thermal Oxidation of Perfluoroolefins	J. Heicklen, V. Knight	7/ /65	U
TDR-469(5260-10)-1	Density, Temperature, and Neutral Composition of the Atmosphere above 100 km	B. K. Ching, R. A. Becker	4/15/65	U
TDR-469(5260-20)-1	Cyclotron Instabilities and Electromagnetic Emission in the ULF and VLF Ranges	J. M. Cornwall	9/15/64	U
TDR-469(5260-20)-2	Atmospheric Density Experienced by Radiation Belt Protons	J. M. Cornwall, A. R. Sims, R. S. White	12/30/64	U
TDR-469(5260-20)-3	Spatial Variations of the Inner Zone Trapped Proton Spectrum	J. E. Blake, S. C. Freden, G. A. Paulikas	7/ /65	U
TDR-469(5260-20)-4	Influence of Synchrotron Radiation on Long-Term Decay of Trapped Energetic Electrons	D. D. Elliott	5/30/65	U
TDR-469(5301)-1	Recovery Safety Criteria for Air Force Space Vehicles	A. E. Gillogly	1/ /65	C
TDR-469(5301)-2	Launch Flexibility Study, Final Report: Summary of Study Conclusions	O. A. Refling	7/ /65	C
TDR-469(5303)-1	Reliability Confidence Limits for Complex Systems	R. M. Geoghagen, S. C. Choi	12/31/64	U
TDR-469(5307)-1	Final Report, Interservice Data Exchange Program (IDEP)	M. Barbe	10/ /65	U



Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5355)-1	A Composite Inner Zone Radiation Environment	J. I. Vette	7/ /65	U
TDR-469(5520-30)-1, Vol I	A Post-1970 Expendable Launch Vehicle System, Volume I: Vehicle Design	G. A. Sears	5/1/65	C
TDR-469(5520-30)-2	Optimum Selection of Launch Vehicles and Their Schedules for Minimum Expected Logistic Cost in Support of a Manned Space Station	S. T. Chu	5/26/65	U
TDR-469(5520-40)-1	Large Solid Motor Design Commonality for Space Booster Applications	E. J. Rattin	4/ /65	C
TDR-469(5540-10)-1	On Optimal Linear Filtering in the Presence of Correlated Measurement Noise	J. S. Meditch	8/27/64	U
TDR-469(5540-10)-2	A Survey of Model Atmospheres Used in the Analysis of Satellite Orbits	R. W. Bruce	4/10/65	U
TDR-469(5540-10)-3	Explicit Tangent-Steering Guidance Equations for Multi-Stage Boosters	F. M. Perkins	5/1/65	U
TDR-469(5540-10)-4	The Design of Explicit Guidance Equations for Rocket Ascent	C. W. Pittman	5/24/65	U
TDR-469(5540-10)-5	Bi-Elliptic Transfer with Plane Change	H. L. Roth	5/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5540-10)-6	Analysis of a Horizon Scanner Autonomous Orbital Navigation System	J. S. Meditch, J. L. LeMay, J. P. Janus	7/ /65	U
TDR-469(5540-10)-7	Orbit Perturbations Due to Solar Radiation Pressure	E. Levin	6/28/65	U
TDR-469(5540-10)-11	Orbit Transfer and Rendezvous Maneuvers Between Inclined Circular Orbits	J. M. Baker	6/ /65	U
TDR-469(5540-20)-1	Computer Input Device for Graphic Data	D. R. O'Bell	2/15/65	U
TDR-469(5540-20)-2	Electromagnetic Compatibility Requirements for Space Systems, General Specifications for	E. B. Arrowsmith	4/ /65	U
TDR-469(5540-20)-3	Image Evaluation Program	S. Brewer	6/1/65	U
TDR-469(5560-10)-1	Military Uses of Hypervelocity Impact Research	Maj. R. L. Hayford, J. M. Brown	4/6/65	C
TDR-469(5560-20)-1	A Second-Order Parameter Optimization Procedure	B. L. Beskind	5/31/65	U
TDR-469(5560-30)-1	Analytical Investigation of Nitrogen Jet Reaction Control Systems	H. Greer	11/30/64	U
TDR-469(5560-30)-2	Parametric Weight Scaling Relationships for Rocket Engine Turbopumps	F. G. Ghahremani	7/26/65	C
TDR-469(5560-30)-3	On the Lateral Vibration of Rotating, Orbiting Cables	W. P. Targoff	7/9/65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(5560-30)-4	Stresses and Strains in Multi-Layer Anisotropic Hollow Cylinders	N. N. Au	6/30/65	U
TDR-469(5730-01)-1	Results of a Simulation Study to Determine the Effectiveness of a Two-Color Background Discrimination Technique	H. W. Wessely	1/ /65	C
TDR-469(5730-03)-1	Survey of Non-Nuclear Devices to Kill Satellites	J. M. Brown, V. C. Frost, A. A. Hanson, M. H. Dazey, T. S. Lee	2/ /65	S
TDR-469(S5805-45)-1	The Distribution and Frequency Dependence of Unintentionally Generated Man-Made VHF/UHF Noise in Metropolitan Areas	E. Skomal	11/ /64	U
TDR-469(S5805-45)-2	The MMRBM (Mobile Mid-Range Ballistic Missile) Command Control Communication Program, Final Report for the Period August to December 1964	A. J. Osborn	2/ /65	S
TDR-469(S5805-70)-1	Mobile Mid-Range Ballistic Missile, WS 325A, Final Report	R. Merkle	10/ /64	S RD
TDR-469(S5807)-1	Covariance Computation Program (COVA), a Recovery Covariance Analysis	S. Sugihara	10/12/65	U
TDR-469(S5810-11)-1	Shock-Shock Interaction on a Slender Cone	V. Blankenship	9/ /64	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(S5810-12)-3	On Exact Simplifications of the Strain Energy Expression for Plates and Circular Cylindrical Shells	R. M. Jones	5/ /65	U
TDR-469(S5810-12)-4	Laminar Boundary Layer-Inviscid Flow Interactions In Shock Tubes	R. B. Mortensen	4/ /65	U
TDR-469(S5810-12)-5	Response of a Re-entry Vehicle to a Nuclear Dust Cloud	S. W. Kash	10/ /65	S RD
TDR-469(S5810-21)-1	Calculation of Wake RCS for Slender Re-entry Vehicles	F. Li	9/11/64	S
TDR-469(S5810-26)-1	Nonequilibrium Contaminant Ionization in Laminar Wakes	J. Kane	8/27/64	U
TDR-469(S5810-29)-1	Selection And Status Of Re-entry Systems Passive Decoys	F. L. Fernandez, B. D. Henshall	9/1/65	S RD
TDR-469(S5810-52)-1	A Method of Determining Chaff Survival Limits for Intercontinental Ballistic Missile Re-entry	L. Berger	5/ /65	S
TDR-469(5810-73)-1	Quantitative Radiant Intensity Measurements Using Photographic and Electronic Imaging	E. B. Turner	11/ /65	U
TDR-469(S5810-74)-1	Response of a Second-Order Linear System to a Time-Symmetrical Input	B. Henshall	3/ /65	U
TDR-469(S5855-20)-1	Guide Line Homing System, a Guidance System For Maneuverable Re-entry Vehicles	E. G. Samario	6/1/65	S

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(S5855-30)-1	Wake Radar Cross Section of Slender Re-entry Vehicles	F. L. Fernandez	10/ /64	U
TDR-469(S5855-80)-1	A General Numerical Method of Characteristics	--	12/ /64	U
TDR-469(S5855-80)-2	On the Theory of Characteristics for Three-Dimensional Unsteady Flows with Application to Magnetohydrodynamics	J. T. Yen	3/ /65	U
TDR-469(S5855-80)-3	Dependence of the Peak Radial Electric Field on Altitude And Distance from a Nuclear Burst	C. L. Longmire	6/ /65	S RD
TDR-469(S5921-44)-1	Study of the Air Launched Ballistic Missile for the Airborne Alert Weapons System	E. Hinz	11/ /64	S RD
TDR-469(S5923-28)-1	A Summary of Multiple Independently Targetable Re-entry Vehicle Technology	E. J. Knight	4/ /65	S RD
TDR-469(S5923-92)-1	The Effect of Geodetic, Gravitational, and Mapping Parameters in Ballistic Weapon Systems	G. A. Reams A. J. Gregory	10/ /65	U
TDR-469(5951-12)-1	Programmed Instruction Technology for Ballistic Weapons Systems	L. E. Persselin	12/15/64	U
TDR-469(S5951-18)-1	A Theory of the Aerodynamics of the Supersonic Splitline Gimballed Nozzle	W. C. Strahle	8/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(9210-01)-1	Mission Oriented Investigation and Experimentation: Advanced Propulsion Program (1 July - 30 September 1964)	W. S. Lewellen, M. L. Rosenzweig, D. H. Ross, K. E. Starner	2/15/65	U
TDR-469(9210-01)-3	Effects of Secondary Flows on the Containment of a Heavy Gas in a Vortex	W. S. Lewellen, D. H. Ross, M. L. Rosenzweig	5/ /65	U
TDR-469(9210-02)-1	Nonequilibrium Rocket Nozzle Recombination Losses	E. A. Cook, L. Schieler	10/15/64	U
TDR-469(9210-02)-2	Mission Oriented Investigation and Experimentation: Theoretical Nonequilibrium Propellant Performance	S. W. Mayer, E. A. Cook, L. Schieler	11/20/64	U
TDR-469(9210-02)-3	High Temperature Behavior of the Gaseous Elements	B. Siegel, S. W. Mayer, E. A. Cook, L. Schieler	5/ /65	U
TDR-469(9210-02)-4	Computed High Temperature Rate Constants for H-Atom Transfers Involving the Light Elements	S. W. Mayer, J. B. Szabo, L. Schieler	6/ /65	U
TDR-469(9220-01)-1	Study of Slot-Excited Waves on a Warm Plasma Slab	P. R. Carron	1/15/65	U
TDR-469(9230-02)-1	Modulation of the Reflectivity of Semiconductors	M. Birnbaum	12/4/64	U
TDR-469(9230-02)-2	Optical Absorption and Photoconductivity in the Band Edge of $\beta$ -Ga <sub>2</sub> O <sub>3</sub>	H. H. Tippins	7/ /65	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(9230-02)-3	Mode Selection Properties of Segmented-Rod Giant Pulse Lasers	M. Birnbaum, T. L. Stocker	8/ /65	U
TDR-469(9230-02)-4	Effect of Electron-Hole Recombination Processes on Semiconductor Reflectivity Modulation	M. Birnbaum, T. L. Stocker	9/ /65	U
TDR-469(9230-03)-1	Etching and Crystal Growth in the GaAs-Sn System	M. F. Millea, W. R. Wilcox	12/30/64	U
TDR-469(9230-03)-2	Melting Point Techniques for Milligram Quantities of Volatile Mixtures	W. R. Wilcox	1/8/65	U
TDR-469(9230-03)-3	Habit Modification of Sapphire and Ruby Crystals Grown from Molten Salts	A. Chase	2/25/64	U
TDR-469(9230-03)-4	Some Factors Affecting the Growth and Properties of $\text{KTaO}_3$ - $\text{KNbO}_3$ Mixed Crystals	W. R. Wilcox, L. D. Fullmer	6/ /65	U
TDR-469(9230-03)-5	Mass Transfer in Fractional Solidification	W. R. Wilcox	9/ /65	U
TDR-469(9230-03)-6	Growth and Preferential Doping of Zircon and Thorite	A. B. Chase, J. A. Osmer	8/ /65	U
TDR-469(9240-01)-1	Mission Oriented Investigation and Experimentation: Gaseous Discharge, Semiannual Technical Report (1 July - 30 September 1964)	H. Cohen, B. H. Carson, J. Heicklen	1/30/65	U
TDR-469(9240-01)-2	The Combination of $\text{CF}_2$ from the Glow Discharge of $\text{CF}_4$	N. Cohen, J. Heicklen	12/30/64	U

Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(9240-01)-3	Mercury-Sensitized Photolysis of $C_2F_4$	N. Cohen, J. Heicklen	2/22/65	U
TDR-469(9240-01)-4	Glow Discharge Shock Tube for Studying Surface Catalysis, Gas Phase, and Chemiluminescent Reactions	R. A. Hartunian, W. P. Thompson	5/ /65	U
TDR-469(9250-01)-1	Growth Defects in Flux-Grown Rubies	K. R. Janowski, E. J. Stofel, A. B. Chase	8/28/64	U
TDR-469(9250-01)-3	Data for $LaTaO_4$ and $PrTaO_4$ , a New Structure Type, and a Series of New Compounds with the $PbNb_2O_6$ Structure, of Composition $K_{0.5}RE_{0.5}Ta_2O_6$ , Where RE is a Rare Earth	G. M. Wolten	9/ /65	U
TDR-469(9260-01)-1	Atomic Absorption Cross Section of Lithium Vapor Between 2300 and 1150 Å	R. D. Hudson, V. L. Carter	1/15/65	U
TDR-469(9260-01)-2	Photoionization of $N_2$ in the 734-805 Å Region	G. R. Cook, M. Ogawa	11/20/64	U
TDR-469(9260-01)-3	Photoionization and Absorption Cross Sections and Fluorescence of $CF_4$	G. R. Cook, B. K. Ching	1/15/65	U
TDR-469(9260-01)-4	Absorption, Photoionization, and Fluorescence of Some Gases of Importance in the Study of Upper Atmosphere	G. R. Cook, B. K. Ching	1/30/65	U



Section V. TECHNICAL DOCUMENTARY REPORTS (Continued)

TDR-469(9260-01)-5	The Absorption of Light by Potassium Vapor between 2856 and 1150 Å	R. D. Hudson, V. L. Carter	6/ /65	U
TDR-469(9260-01)-6	Apodization in Fourier Transform Spectroscopy	J. M. Dowling	5/30/65	U
TDR-469(9260-01)-7	Temperature and Zeeman Measurements on the 1.64 mm H <sub>2</sub> O Absorption Line	J. R. Rusk	6/ /65	U
TDR-469(9260-01)-8	Measurements of the Molecular Absorption Cross Section and Photoionization of Sodium Vapor Between 1600 and 3700 Å	R. D. Hudson	6/10/65	U
TDR-469(9260-02)-1	Solar X-Ray Spectrometer Experiment Employing a Proportional Counter	H. R. Rugge	6/ /65	U

# Section VI. PROFESSIONAL PAPERS

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Spaceborne Computer Goals - Present & Future	(2) IEEE Professional Group on Electronic Computers	L. Andrews	5/65	U
The Use of End-Game Models in Evaluation of Weapons Systems	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	R. V. Attarian	8/64	S
Capacitance-Voltage Dependence of Zinc-Diffused GaAs p-n Junctions	(1) Solid State Electronics	L. W. Aukerman, D. F. Kyser, M. F. Millea	7/64	U
Electron Irradiation of GaAs Luminescent Diodes	(1) Bulletin of the American Physical Society	L. W. Aukerman, M. F. Millea	8/64	U
Radiation Effects in III-V Compounds	(1) <u>Semiconductors and Semi-Metals, Chapter on Physics of III-V Compounds</u> (book to be published by Academic Press)	L. W. Aukerman	6/65	U
The Band-Filling Current in Heavily Doped GaAs Diodes	(1) Applied Physics Letters	L. W. Aukerman, M. F. Millea	3/65	U
The Role of Diffusion Current in the Electro-luminescence of GaAs p-n Junctions	(1) Bulletin of the American Physical Society	L. W. Aukerman, M. F. Millea	9/64	U
Cosmic Ray and Solar Proton Albedo Neutron Decay Injection	(1) Journal of Geophysical Research	M. Austin, A. Dragt, R. S. White	6/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Parking Orbits and Launch Windows for Lunar Ascent Trajectories	(1) AIAA Journal	J. M. Baker	1/65	U
The Radiation Field of an Electric Dipole Antenna in a Conical Sheath	(1) Journal of Mathematics and Physics	A. Banos, R. H. Huddleston, D. C. Fridmore- Brown, E. C. Taylor	9/64	U
Considerations on Man Versus Machines for Space Probing	(1) Academic Press, <u>Advances in Computers</u>	P. L. Bargellini	6/65	U
Space Physics and Its Influence on Physics and Engineering Curricula	(2) American Society for Engineering Education Meeting	R. A. Becker	6/65	U
Suborbital Inspectors	(1) and (2) Ninth Sympo- sium on Ballistic Missile and Space Technology and Transactions	I. Bekey	8/64	S
System Life Cycle and Intro- duction to AFSCM 375-5	(2) Systems Engineering via AFSCM 375-5 Seminar	F. W. Belina, N. L. Gelbwaks, R. T. Golightly	4/65	U
Some Suggestions for Improved Utilization of Technical Intelli- gence Information	(2) Military Operations Research Society (MORS)	E. O. Berdahl	10/64	S
On Time - Optimal Control with Threshold Logic Units	(1) Transactions of IEEE Professional Group on Automatic Control	J. W. Berkovec	10/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
An Introduction to the Kraichnan Theory of Turbulence	(1) Journal of Fluid Mechanics	R. Betchov	5/65	U
Some Observations of Plasma Turbulence	(1) Journal of Plasma Physics and Thermonuclear Fusion (2) Lecture at Cal Tech	R. Betchov, R. C. Phillips, E. B. Turner	7/64	U
The Stability of Parallel Flows with Frequency Dependent Viscosity	(1) Physics of Fluids	R. Betchov, K. S. Wen	1/65	U
Effect of Diffraction on the Output Beam of a Ruby Laser	(1) Proceedings of the IEEE	M. Birnbaum, T. L. Stocker, S. J. Welles	12/64	U
Effect of Electron-Hole Recombination Processes on Semiconductor Reflectivity Modulation	(1) and (2) Physics of Quantum Electronics Conference	M. Birnbaum, T. L. Stocker	5/65	U
Giant Pulse Laser Operation with Semiconductor Mirrors	(1) Journal of Applied Physics (2) Second Conference on Laser Technology	M. Birnbaum, T. L. Stocker	3/65	U
Modulation of the Reflectivity of Semiconductors	(1) Applied Physics Letters	M. Birnbaum	7/64	U
Semiconductor Surface Damage Produced by Ruby Lasers	(1) Journal of Applied Physics	M. Birnbaum	2/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Precipitation of Energetic Electrons at Middle Latitudes	(2) AGU, Seattle, Washington	J. B. Blake, S. C. Freden, G. A. Paulikas	12/64	U
Spatial Variations of the Inner Zone Trapped Proton Spectrum	(1) Physical Review Letters	J. B. Blake, S. C. Freden, G. A. Paulikas	1/65	U
The Solar Proton Event of 5 February 1965	(2) American Geophysical Union Meeting	J. B. Blake, S. C. Freden, G. A. Paulikas	4/65	U
A Linearized Theory for Shock-Shock Interaction on a Supersonic Slender Cone	(2) Shock-on-Shock Interaction Conference	V. D. Blankenship	2/65	U
Shock-Shock Interaction on a Slender Supersonic Cone	(1) Journal of Fluid Mechanics	V. D. Blankenship	2/65	U
Optimum Reset of Ship's Inertial Navigation System	(1) IEEE Transactions, Professional Group on Aerospace and Navigational Electronics	B. E. Bona, R. J. Smay	1/65	U
A Systematic Approach to the Choice of Station Locations for Low-Altitude Satellite Tracking in Near Equatorial Orbits	(2) IEEE International Convention on Military Electronics	G. J. Bonelle	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Letter to the Editor with comments on "The Deciboyles: A Rational Scale of Pressure Designation" published 2/65 issue of Research/Development	(1) Research/Development	E. N. Borson	5/65	U
Nth Power of a Matrix	(1) SIAM Review	W. D. Botch	4/65	U
Gallane and Indane	(1) Journal of American Chemical Society	P. Breisacher, B. Siegel	3/65	U
Gaseous Alane and Dialane	(1) Journal of American Chemical Society	P. Breisacher, B. Siegel	9/64	U
Military Applications of Hyper- velocity Impact Research	(2) Seventh Hypervelocity Impact Symposium	J. M. Brown, R. L. Hayford	12/64	S
The Combined Aerodynamic- Propulsive Orbital Plane- Change Maneuver	(1) AIAA Journal (2) Second AIAA Aerospace Sciences Meeting	R. W. Bruce	9/64	U
STAFF, A Program for Evaluation of Stellar- Inertial Platforms	(2) AIAA Meeting	R. N. Buland	4/65	U
An Optical Absorption Study of the Reduction Kinetics of Rutile Crystals	(1) Journal of American Ceramic Society	R. D. Carnahan, J. O. Brittain	7/64	U
Dislocation Damping in Rutile Single Crystals	(1) Acta Metallurgica (2) AIME Fall Meeting	R. D. Carnahan, J. O. Brittain	8/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Dynamic Microstrain of Niobium	(1) Acta Metallurgica	R. D. Carnahan, G. A. Stone	10/64	U
Low Temperature Internal Friction Peak in Rutile	(1) Acta Metallurgica	R. D. Carnahan, J. O. Brittain	8/64	U
Microplasticity	(1) Journal of Metals	R. D. Carnahan	8/64	U
A Method of Analyzing Time Dependent Cylindrical Discharge	(1) Journal of Applied Physics	P. R. Caron, R. D. Kodis	10/64	U
A Study of Slot-Excited Waves on a Warm Plasma Slab	(1) Radio Science Journal	P. R. Caron	12/64	U
Calculation of Wake Radar Cross Section for Slender Re-entry Vehicles	(1) Journal of Missile Defense Research	J. Carson, D. Anderson, L. Berger, J. Kane, E. Levinsky, F. Li, F. Fernandez	10/64	S
A Further Investigation of Factors Influencing Domain Configurations in Yttrium Iron Garnet	(1) Journal of Physics and Chemistry of Solids	A. B. Chase, R. A. Lefever, K. A. Wickersheim	4/65	U
Aluminum and Gallium Analogues of Magnetoplumbite	(1) Journal of Physical Chemistry	A. B. Chase, G. M. Wolten	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Habit Modification of Corundum Crystals Grown from Molten Salts	(2) American Physical Society Meeting	A. B. Chase	12/64	U
Habit Modification of Sapphire and Ruby Crystals Grown from Molten Salts	(1) Journal of American Ceramics Society	A. B. Chase	4/65	U
Integrating Crew Performance into Space Vehicle Design for Optimum Reliability	(2) Manned Space Reliability Symposium	W. P. Chase	7/64	U
Gravity Gradient Technology Satellite Applications	(2) Hughes Aircraft Meeting	V. Chobotov	7/64	U
Theory of Electrostatic Double Probe Comprised of Two Parallel Plates	(1) AIAA Journal (2) 2nd Annual Meeting of AIAA	P. M. Chung, V. D. Blankenship	6/65	U
Weakly Ionized Nonequilibrium Viscous Shock Layer and Electrostatic Probe Characteristics	(1) AIAA Journal	P. M. Chung	8/64	U
Stability Analysis of Multi-loop, Multirate Sampled Systems	(1) and (2) American Institute of Aeronautics Guidance and Control Conference	T. C. Coffey, I. J. Williams	3/65	U
Mercury-Sensitized Photolysis of $C_2F_4$	(1) Journal of Chemical Physics	N. Cohen, J. Heicklen	4/65	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
The Combination of CF <sub>2</sub> from the Glow Discharge of CF <sub>4</sub>	(1) Journal of Chemical Physics	N. Cohen, J. Heicklen	1/65	U
Brownian Motion Model of Non-relativistic Quantum Mechanics	(1) Physical Review or Annals of Physics	G. G. Comisar	12/64	U
Calculation of Equilibrium Electron and Ion Concentrations	(1) Proceedings of JANAF Thermochemical Working Group	E. A. Cook	5/65	U
Absorption, Photoionization, and Fluorescence of CO	(1) Canadian Journal of Physics	G. R. Cook, P. H. Metzger, M. Ogawa	5/65	U
Photoionization and Absorption Cross Sections and Fluorescence of CF <sub>4</sub>	(1) and (2) Journal of Chemical Physics	G. R. Cook, B. Ching	11/64	U
Photoionization of N <sub>2</sub> in the 734-805 Å Region	(1) Optical Society Meeting (2) Canadian Journal of Physics	G. R. Cook, M. Ogawa	10/64	U
Anti-Satellite Lethal Mechanisms and Shielding	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	R. M. Cooper	7/64	S RD
Atmospheric Density Experimented by Radiation Belt Protons	(1) Journal of Geophysical Research	J. M. Cornwall, A. R. Sims, R. S. White	11/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Cyclotron Instabilities and Electromagnetic Emission in the ULF and VLF Ranges	(1) Journal of Geophysical Research	J. M. Cornwall	9/64	U
Infrared Camera Tube Spatial Response Measurements	(1) IRIS Proceedings	E. F. Cross	9/64	S
Oscillator Stability	(1) Proceedings or Transactions IEEE	J. A. Develet	10/64	U
Synthetic-Aperture Radar	(1) Book - The Macmillan Company	J. A. Develet	4/65	U
Letter to the Editor: "The Soldner Shift"	(1) Sky and Telescope	L. de Witte	3/65	U
On Derivations and Properties of Stokes' Gravity Formula	(1) Journal of Geophysical Research	L. de Witte	5/65	U
The Current Status and Challenge to Air Breathing Propulsion for Application to Launch Vehicle Systems	(2) AIAA Propulsion Specialists Conference and (1) Proceedings	R. L. Doebler, M. C. Hinton	5/65	C
Apodization in Fourier Transform Spectroscopy	(1) and (2) Journal of the Optical Society of America	J. M. Dowling	12/64	U
Interferometry with a Double Beam Lamellar Grating	(1) and (2) Mellon Institute Symposium on Far Infrared Transpose Spectroscopy	J. M. Dowling, R. T. Hall	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Development of Hot Shot Gas Source for Pulsed MHD Wind Tunnel Study	(2) Sixth Symposium on Engineering Aspects of Magnetohydrodynamics	D. A. Durran, W. R. Grabowsky	3/65	U
Military Applications of Millimeter Wavelengths	(2) Sixth Winter Conference on Military Electronics	B. J. DuWaldt, A. W. Rihaczek	12/64	S
Research on the Suitability of Millimeter Wavelength Systems for Space Applications	(2) WESCON Meeting	B. J. DuWaldt, L. A. Hoffman	7/64	U
The Role of Horizon Sensors in Spacecraft Guidance and Control Systems	(2) Symposium on Infrared Sensors for Spacecraft Guidance and Control	M. D. Earle	4/65	C
Design, Adjustment and Operation of an Off-Axis Schmidt Spectrograph for Plasma Applications	(2) Optical Society of America Meeting	E. J. Eastmond, E. B. Turner	1/65	U
Calculation of the Dayglow in the Middle Ultraviolet	(2) American Geophysical Union, Annual Meeting	D. D. Elliott, E. S. Abers	3/65	U
Calculation of the Dayglow in the Middle Ultraviolet	(1) Journal of Geophysical Research	D. D. Elliott, E. S. Abers	5/65	U
The Influence of Synchrotron Radiation on the Long-Term Decay of Trapped Energetic Electrons	(1) Journal of Geophysical Research	D. D. Elliott	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
A Generalized Major-Product Solution Method for Non-equilibrium Thermochemical Problems	(2) Third Conference on Performance of High Temperature Systems	G. J. Emanuel, H. J. Vale	12/64	U
Application of the Method of Matched Asymptotic Expansions to Unsteady, Diffusing, Reacting Flows	(1) Physics of Fluids	G. J. Emanuel	6/65	U
3. 4-mm Observations of the Quasi-Stellar Radio Source 3C 279	(1) Astrophysical Journal	E. E. Epstein	6/65	U
Combustion of Initially Unmixed Reactants for One-Step Reversible Chemical Kinetics	(1) and (2) Heat Transfer and Fluid Mechanics Institute and Proceedings	F. E. Fendell, P. M. Chung	3/65	U
Ignition and Extinction in Combustion of Initially Unmixed Reactants	(1) Journal of Fluid Mechanics	F. E. Fendell	9/64	U
Wake Transition and Prediction of Initial Turbulent Wake Electron Levels	(1) AIAA Journal	F. L. Fernandez	3/65	U
Tensile Behavior of Lithium Fluoride Bicrystals	(1) AIME Transactions	S. Feuerstein	8/64	U
Read-Out Detector	(1) Systems Design Magazine	E. A. Fives	10/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Spatial Variation of the Trapped Proton Spectrum	(1) and (2) American Geophysical Union Meeting	S. C. Freden, J. B. Blake, G. A. Paulikas	3/65	U
COSPAR Report: Frequency Spectrum of Thermal Fluctuations in Plasma; Radio Frequency Measurements of the Sun, Moon, and Venus; Particle Measurement of the Inner Radiation Zone; Ground-Based Solar Program	(1) COSPAR Report (1964)	M. Fredgant	2/65	U
A Control Device for Supersonic Combustion Utilizing the Spectral Intensity Ratio	(1) Journal of Spacecraft and Rockets	A. E. Fuhs	2/65	U
Aerospace Propulsion	(1) Book - McGraw-Hill Book Company	A. E. Fuhs	3/65	U
An Electrical Conductivity-Velocity Instrument Using Steady Applied Magnetic Field	(2) Sixth Symposium on Engineering Aspects of MHD	A. E. Fuhs, R. Betchov, O. Gibb, R. Abshear	2/65	U
Comparison of Measured and Calculated Conductivity/Velocity for Flight of RVX-2A No. 423	(1) Journal of Missile Defense Research	A. E. Fuhs, R. L. Bacharach	2/65	S

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Direct Determination of Transition to Turbulence During Re-entry	(1) and (2) AIAA Entry Technology Conference	A. E. Fuhs	9/64	U
Results of Flight of the Electrical Conductivity/Velocity Instrument as Part of RVIP on Board Mark-6 R/V 364 and R/V 367	(1) Journal of Missile Defense Research	A. E. Fuhs, R. L. Bacharach	2/65	S
Growth of Potassium Tantalum Niobate Crystals	(2) American Physical Society	L. D. Fullmer, W. R. Wilcox	12/64	U
Thermal Expansion of BeO-SiC Composites	(1) American Ceramic Society Regional Meeting	W. J. Gardner	8/64	U
The Design of Ground Support Systems via AFSCM	(1) and (2) IEEE Symposium on Automatic Support Systems	N. L. Gelbwaks	4/65	U
Equations for Vertical Landing on an Atmosphere-less Body	(1) Astronautica Acta	R. G. Gersten, Z. E. Schwarzbein	3/65	U
Self Contained Preliminary Orbit Determination from Measurements of the Local Vertical and Stellar Observations	(1) Technical Note for the AIAA Journal	R. H. Gersten, Z. E. Schwarzbein	2/65	U
Parametric Weight Scaling Relations for Rocket Engine Turbopumps	(2) Joint Propulsion Specialists Conference by AIAA	F. G. Ghahremani	5/65	C

# Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Automatic Equalization Using Time-Domain Equalizers	(1) Proceedings of IEEE - Correspondence Section	E. D. Gibson	4/65	U
Diffusional Processes in Knudsen Cells	(1) Journal of Physical Chemistry	N. A. Gokcen	5/65	U
Further Analysis of Propa- gation of Plasma Waves in a "Spoke-Wheel" Magnetic Field	(1) Radio Science	R. R. Gold	8/64	U
Plasma Simulation with an Artificial Dielectric in a Horn Geometry	(1) IEEE Journal	K. E. Golden	9/64	U
On the Philosophy of Inter- active Systems	(1) and (2) 1965 Fall Joint Computer Conference and Proceedings	A. H. Gott	6/65	U
The Effects of State Variable Discontinuities in the Solution of Variational Problems	(1) AIAA Journal	R. G. Graham	8/64	U
Propulsive Performance of a Cold Gas Attitude Control Reaction Jet System	(1) Journal of Spacecraft and Rockets - AIAA	H. Greer	4/65	U
Boundary Conditions in Optimization Problems	(1) and (2) Symposium on Recent Advances in Optimization Techniques and Proceedings	D. S. Grey	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Low Thrust Reaction Jet Performance	(1) and (2) ASME Winter Annual Meeting and Transactions	D. J. Griep, H. Greer	6/65	U
A High Resolution Far Infrared Spectrum of Water Vapor	(1) Ohio State University Symposium on Molecular Structure and Spectroscopy	R. T. Hall, J. M. Dowling	5/65	U
In-Place Calibrator for Pressure Transducers	(1) Review of Scientific Instruments	J. A. Hanna	8/64	U
Letter to Editor - Correction to "Gain Limitations of Large Antennas"	(1) IEEE Transactions on Antennas and Propagation	R. C. Hansen	4/65	U
Minimum Spot Size of Focused Apertures	(1) and (2) The URSI Symposium on Electromagnetic Wave Theory	R. C. Hansen	5/65	U
Low Reynolds Number Flow of a Dissociated Gas about a Catalytic Cylinder	(1) Journal of Chemical Physics	R. A. Hartunian, J. R. Lloyd	4/65	U
New Shock Tube Technique for Studying Surface and Gas Phase Atom Recombination Rates	(1) Journal of Chemical Physics	R. A. Hartunian, W. P. Thompson	12/64	U
C <sub>2</sub> F <sub>2</sub>	(1) Journal of American Chemical Society	J. Heicklen, V. Knight	8/64	U
Reaction of NO(A <sup>2</sup> Σ <sup>+</sup> ) with H <sub>2</sub> , CH <sub>2</sub> , and C <sub>2</sub> H <sub>6</sub> : The Fate of RNO	(1) Journal of Chemical Physics	J. Heicklen	5/65	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
The Infrared Spectra of Perfluorocyclopropane and cis- and trans-Perfluorobutene-2	(1) Journal of Physical Chemistry	J. Heicklen, V. Knight, F. Wachi	9/64	U
The Mercury-Photosensitized Decomposition of Perfluoropropene	(1) Journal of Chemical Physics	J. Heicklen, V. Knight	3/65	U
The Mercury Photosensitized Oxidation of Perfluoropropene	(1) Journal of Chemical Physics	J. Heicklen	3/65	U
The Mercury Photosensitized Oxidation of Tetrafluoroethylene	(1) Journal of Chemical Physics	J. Heicklen, V. Knight, S. A. Greene	8/64	U
The Multiplicity of CF <sub>2</sub>	(1) Journal of Chemical Physics	J. Heicklen, N. Cohen, D. Saunders	2/65	U
The Photolysis of Nitric Oxide	(1) Journal of Chemical Physics	J. Heicklen, J. J. McGee	7/64	U
The Photolysis of Phosgene-Ethylene Mixtures	(1) Journal of American Chemical Society	J. Heicklen	9/64	U
The Photo-Oxidation of Methyl Iodide	(1) Journal of Chemical Physics	J. Heicklen	9/64	U
Radio Frequency Interference at Orbital Altitudes	(2) IEEE 1965 Aero Space Technical Conference	L. A. Hoffman	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
The Meteorological Satellite Communications Problem	(1) Book	L. A. Hofiman, H. J. Wintroub	10/64	U
An Application of Rational Chebyshev Approximation on the Unit Circle to Digital Filtering	(1) and (2) International Federation for Information Processing Congress and Proceedings	H. Holtz, H. L. Loeb	4/65	U
Determination of Inhomogeneous Media for Which the Vector Wave Equation of Elasticity is Separable	(1) Bulletin of the Seismo- logical Society of America	J. F. Hook	5/65	U
Determination of Reachable Zone Boundaries	(1) SIAM Journal			
"Introduction" to Plasma Diagnostic Techniques	(1) Book, <u>Plasma Diagnostic Techniques - Academic Press</u>	D. R. Howard, Z. V. Rekasius	7/64	U
Measurements of the Molecular Absorption Cross Section and the Photoionization of Sodium Vapor Between 1600 and 3700 Å	(1) Journal of Chemical Physics	R. H. Huddlestone	4/65	U
Measurements of the Tempera- ture Dependence of the Schumann-Runge Absorption Bands of Oxygen and their Application to the Upper Atmosphere	(2) American Geophysical Union Annual Meeting	R. D. Hudson V. L. Carter	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Oscillator Strengths of the $\nu' = 5-13$ ; $\nu'' = 1, 2$ Bands of the Schumann-Runge Band System	(2) Ohio State University Symposium on Molecular Structure and Spectroscopy	R. D. Hudson	5/65	U
The Absorption of Light by Potassium Vapor Between 2856 and 1150Å	(1) Physical Review	R. D. Hudson, V. L. Carter	3/65	U
The Absorption of Light by Potassium Vapor from 1100 to 2856Å	(2) Optical Society Meeting	R. D. Hudson, V. L. Carter	9/64	U
The Atomic Absorption Cross Section of Lithium Vapor Be- tween 2300 and 1150Å	(1) Physical Review	R. D. Hudson, V. L. Carter	10/64	U
The Photoelectric Absorption Spectrum of Oxygen at Elevated Temperatures (300 to 1000°K) at a Bandwidth of 0.075Å Be- tween 1750 and 2100Å (Schumann-Runge Bands)	(2) Ohio State University Symposium on Molecular Structure and Spectroscopy	R. D. Hudson, V. L. Carter	5/65	U
The Ratio of the Degrees of Ionization of Lithium and Sodium	(1) Astrophysical Journal	R. D. Hudson, V. L. Carter	6/65	U
The Ratio of the Degrees of Ionization of Lithium and Sodium in the T Tauri Nebula	(1) Astrophysical Journal	R. D. Hudson, V. L. Carter	6/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Blast Wave Impingement on a Slender Wedge Moving at Hypersonic Speeds	(2) Shock-on-Shock Symposium	G. R. Inger	1/65	U
Nonequilibrium Hypersonic Stagnation Flow at Low Reynolds Numbers	(1) International Journal of Heat and Mass Transfer	G. R. Inger	2/65	U
Antenna Polarization of an Equatorially Mounted Antenna	(1) IEEE Transactions on Antenna and Propagation	E. Jacobs	12/64	U
2. 8 Minute Beamwidth, 20-Second Pointing Accuracy Millimeter Wave Antenna-Measurement and Evaluation	(1) and (2) IEEE Convention Record and Convention	E. Jacobs, H. E. King	12/64	U
English Translation of Russian Book, <u>Radio Astronomical Methods of the Measurement of Antenna Parameters</u> by A. D. Kuz'min and A. E. Salomonovich	(1) Translation to be published by Academic Press	E. Jacobs, K. N. Trirogoff	2/65	U
Absorption Coefficients of $C_{1,2}$ at High Temperatures	(1) Journal of Quantitative Spectroscopy	T. A. Jacobs, R. R. Giedt	2/65	U
A Simple Spectrophotometric Technique for Determination of Oxygen Molecule and Atom Concentrations	(1) Journal of Applied Optics	T. A. Jacobs, B. H. Carson, R. R. Giedt	1/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Experimentally Determined Ultraviolet Intensities for Ballistic Missile Plumes	(1) and (2) AMRAC Meeting and Proceedings	T. A. Jacobs, R. R. Giedt	4/65	S
Scattering of Ultraviolet Light in the Lower, Marine Atmosphere	(1) Journal of Optical Society of America	T. A. Jacobs, R. R. Giedt, W. G. Gaskill, W. W. Taylor	3/65	U
Data Transmission System for Ground Checkout of Titan III	(1) IEEE Technical Confer- ence (2) IEEE Transactions on Aerospace	J. P. Janis	2/65	U
Growth Defects in Flux- Grown Rubies	(2) AIME Fall Meeting	K. Janowski, A. Chase, E. Stofel	9/64	U
Aluminum Oxyfluoride	(1) Nature	R. L. Johnson, B. Siegel	8/64	U
The Effect of Sample Density in Spectrographic Emission Analysis	(1) Analytical Chemistry	R. L. Johnson, B. Siegel	1/65	U
A Note on the Instability of a Rotating String	(1) Journal of Applied Mechanics	J. P. Jones	2/65	U
A Note on an Orthogonality Relation in a Problem on a Rotating String	(1) Journal of Applied Mathematics	J. P. Jones	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
A Simplified Method for Dynamic Stress Analysis of Axially Symmetric Solid Propellant Grains	(1) AIAA Journal	J. P. Jones, J. S. Whittier	2/65	U
Dynamics of a Two-Layered Timoshenko-Type Cylindrical Shell	(1) Journal of Applied Mechanics	J. P. Jones, J. S. Whittier	4/65	U
Forced Motion of a Plate	(1) Journal of Acoustical Society of America	J. P. Jones	9/64	U
The Response of an Elastic Ring to Impact and Moving Loads	(1) Quarterly Journal of Mechanics and Applied Mathematics	J. P. Jones	9/64	U
On Exact Simplifications of the Strain Energy Expression for Plates and Circular Cylindrical Shells	(1) Journal of Applied Mechanics	R. M. Jones	5/65	U
Toward a New Snap-Through Buckling Criterion for Axially-Compressed Circular Cylindrical Shells	(1) Journal of Applied Mechanics (2) ASME Summer Meeting	R. M. Jones	3/65	U
Theory of a Class of Discrete Optimal Control Systems	(1) Journal of Electronics and Control	B. W. Jordan, E. Polak	11/64	U
Theory of Optimum Discrete Time Systems	(2) International Federation of Automatic Control Conference	B. W. Jordan	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Ablation Effects on RF Attenuation in the Turbulent Boundary Layer of Slender Bodies	(1) AIAA Journal	J. J. Kane, F. Li	6/65	U
The Effects of Diffusion in Laminar Hypersonic Wakes	(1) AIAA Journal	J. J. Kane	1/65	U
Comment on Elliptic Elements in Terms of Small Increments of Position and Velocity Components and Generalization of the Solutions for an Arbitrary Initial Point	(1) AIAA Journal	H. K. Karrenberg	10/64	U
Technical Note: Four Methods for Quickly Establishing Orbital Systems	(1) AIAA Journal	H. K. Karrenberg	10/64	U
Thermal Diffusivity Measurement Technique for Very High Temperatures	(2) Fourth Thermal Conductivity Conference	J. Kaspar, E. H. Zehms	10/64	U
The Effect of Charged Particle Environments on Manned Military Space Systems	(1) and (2) Second Symposium on Protection Against Radiations in Space	F. L. Keller, R. G. Pruett	10/64	U
A New Class of Hyper-eutectic Carbide Composites	(1) and (2) AIAA Sixth Structural and Materials Conference and AIAA Journal	E. G. Kendall, J. I. Slaughter, W. C. Riley	3/65	U
Long Waves or Short - Perspectives on the Millimeter Region	(1) IEEE Spectrum	D. D. King	2/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Seeing Through Classical and Quantum Eyes - Some Millimetric Observations	(2) University of So. Calif. Electrical Engineering Dept.	D. D. King	4/65	U
Space for Microwaves	(2) IEEE - 1965 GMTT Symposium	D. D. King	4/65	U
Steerable Arrays for Space Applications	(2) IEEE Section Meeting	D. D. King	9/64	U
A Large Aperture Millimeter Wave Antenna and Observations at 3.2 mm	(2) IEEE, Group on Antennas and Propagation	H. E. King	2/65	U
Shaped Beam Antennas for Medium Altitude Attitude Stabilized Satellites	(1) IEEE, Group on Antennas and Propagation	H. E. King, J. L. Wong, C. J. Zamites	3/65	U
Exchange Interactions Between Chromium Ions in Ruby	(1) Journal of Applied Physics (2) Tenth Conference on Magnetism and Magnetic Materials	P. Kisluk, W. F. Krupke	8/64	U
The Application of Optical Science to Visual Research in Space	(2) Post Graduate Seminar on Recent Advances in Visual Science	S. Konopken	6/65	U
Anomalous Power Dependent Absorption in $\text{Er}^{3+}\text{Y}_2\text{O}_3$ Single Crystals	(1) Applied Physics Letters	W. F. Krupke, E. R. Peressini	5/65	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Crystal Field Splitting of Trivalent Thulium and Erbium J-Levels in Yttrium Oxide	(1) Journal of Chemical Physics	W. F. Krupke, J. B. Gruber, J. M. Poindexter	7/64	U
Optical Absorption Intensities of Rare Earth Ions in Crystals: The Absorption Spectrum of Thulium Ethylsulfate	(1) Physical Review	W. F. Krupke, J. B. Gruber	4/65	U
Performance of Non-Ideal Narrow-band Quantum Counters	(1) IEEE Proceedings	W. F. Krupke	10/64	U
An Identity in $\sum_{i=1}^n \cos 2k(i\pi/2n)$	(1) American Mathematical Monthly	G. H. Kuby	8/64	U
A Simulation of Earthquake Amplification Spectra for Southern California Sites	(1) and (2) Third World Conference on Earthquake Engineering and Proceedings	D. A. Lacer	7/64	U
Measurement of Optical Absorption in an Electric Field	(1) The Physical Review	L. M. Lambert	2/65	U
Optical Absorption in an Electric Field in Semi- Insulating Arsenide	(1) The Physics and Chemistry of Solids	L. M. Lambert	4/65	U
Behavior of the Magnetization of Hard Superconductors with Transport Current in Trans- verse Fields. I	(1) Applied Physics Letters (2) Am. Physical Soc. Meeting	M. A. R. LeBlanc, W. F. Druyvesteyn, C. T. M. Chang	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Oscillatory Longitudinal Paramagnetic Effect in a Semi-Reversible Type II Superconductor	(2) Ninth International Low Temperature Conference	M. A. R. LeBlanc	9/64	U
A Simplified Technique for Error Analysis of Rocket Boost Inertial Navigation Systems	(1) and (2) AIAA	J. L. LeMay	10/64	U
Low Energy Electron Scattering from Atoms and Molecules: A Model	(1) Physical Review (2) APS Seventeenth Annual Gaseous Electronics Conference	C. J. Lenander	9/64	U
Basic Macroscopic Measurements	(1) Book, Plasma <u>Diagnostic Techniques</u> - Academic Press	S. L. Leonard	4/65	U
Astrodvnamics, Guidance and Control, 1964 Conference Review	(1) Journal of Astronautics and Aeronautics	E. Levin	10/64	U
Explicit Guidance for an Oblate Gravitational Field	(2) AIAA Meeting	S. A. Levine	5/65	U
Comment on "Rotating Elec- trically Conducting Fluids in a Long Cylinder"	(1) AIAA Journal	W. S. Lowellen	7/64	U
Effects of Secondary Flows on the Containment of a Heavy Gas in a Vortex	(1) and (2) AIAA Journal and Propulsion Specialists Conference	W. S. Lowellen, D. H. Ross, M. L. Rosenzweig	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Effects of Vortex Secondary Flow on Containment for the Gaseous Fission Rocket	(1) AIAA Bulletin (2) AIAA Propulsion Specialists Conference	W. S. Lewellen, D. H. Ross, M. L. Rosenzweig	2/65	U
Synthesis of REX Radar Observables	(1) Ninth Symposium on Ballistic Missile and Space Technology Transactions and Journal of Missile Defense Research	F. K. Li, J. L. Carson, R. W. Chambers, E. S. Levinsky, S. Lafazan	8/64	S
A New Concept in Artificial Gravity Systems	(2) AIAA Fourth Manned Space Flight Meeting	C. A. Lindley	3/65	U
The Flutter of Two-Bay Flat Panels of Infinite Span at Supersonic Mach Numbers	(1) AIAA Journal	M. H. Lock, E. F. Farkas	1/65	U
Equivalent Statements of Generalized Haar Theorem	(1) American Mathematical Society Notices	H. L. Loeb	1/65	U
Composite Coded Communications	(1) Ninth Symposium on Ballistic Missile and Space Technology Transactions	C. S. Lorens, D. J. Braverman	8/64	U
The Chlorine-Atom Initiated Polymerization of $C_2F_4$	(2) Southwest Meeting of American Chemical Society	D. G. Marsh, J. Heicklen	12/64	U
A General Method of Systematic Interval Computation for Numerical Integration of Initial-Value Problems	(1) The Association for Computing Machinery	W. C. Martin, K. C. Paulson, L. Sashkin	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Parametric Analysis of Integrated Tracking, Telemetry, and Command Systems	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	D. L. Matson	8/64	U
Computed High Temperature Rate Constants for H-Atom Transfers Involving the Light Elements	(2) Meeting of American Chemical Society	S. W. Mayer, H. S. Johnston, J. B. Szabo, L. Schieler	5/65	U
Ultraviolet Radiometric Measurements of the Moon, Venus, and Selected Stars	(2) American Optical Society Meeting	E. B. Mayfield	9/64	U
Electron Current Through Thin Mica Films	(1) Physical Review (2) Technical Conference on the Electronic Properties and Applications of Solid/Solid Interfaces	M. McColl	7/64	U
Book Review of Optimization Theory and the Design of Feedback Control Systems	(1) SIAM Review	R. J. McGrath	10/64	U
Spin Relaxation of Rubidium in Molecular Buffer Gases	(1) Journal of Chemical Physics	R. J. McNeal	5/65	U
Observations of Interaction Between Hydromagnetic Wave and Electrical Current	(1) Physical Review Letters	D. A. McPherson	7/64	U
Suboptimal Linear Filtering for Continuous Dynamic Processes	(2) Allerton Conference on Circuit and System Theory	J. S. Meditch	9/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
On the Quantum Efficiencies of Twenty Alkali Halides in the 12-21 eV Region	(1) Journal of Physical Chemical Solids	P. Metzger	3/65	U
Newtonian Flow over a Stationary Body in Unsteady Flow	(1) AIAA Journal	J. W. Miles	3/65	U
Etching and Crystal Growth in the GaAs-Sn System	(1) Journal of Electrochemical Society and Solid State Electronics	M. F. Millea, W. R. Wilcox	2/65	U
The Electronium Rescence of GaAs at 30k	(1) Applied Physics Letters	M. F. Millea, L. W. Aukerman	9/64	U
Project TRAP: Downrange Measurements Program	(2) Research Reserve Space Science Seminar	E. L. Miller	9/64	S
Incompressible Momentum Integral Boundary Layer Solution Relatior. to Shock Tube Test Time	(2) Ninth Midwestern Mechanics Conference	H. Mirels, W. S. King	3/65	U
Minimum Length MHD Accelerator with Constant Enthalpy	(1) AIAA Journal	H. Mirels, R. R. Gold, J. F. Mullen	10/64	U
Diffraction of Ocean Waves about a Breakwater	(1) Journal of the Waterways and Harbors Division	C. T. Morrow	2/65	U
Goals of Engineering Education from an Industrial Viewpoint	(1) and (2) ASCE Journal and Meeting	C. T. Morrow	11/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Practical Aspects of Random Vibration	(2) Random Vibrations Course, University of New Mexico	C. T. Morrow	2/65	U
Nightglow Excitation and Maintenance of the Nighttime F-Layer by Low Energy Protons	(2) American Geophysical Society Western Regional Meeting	F. A. Morse, A. B. Prag, R. J. McNeal, J. M. Cornwall	12/64	U
Response and Optimum Damping for Simple Mechanical and Electromechanical Systems	(1) Product Engineering	G. H. Neugebauer	4/65	U
Civilian Benefits from Space Materials Research	(1) Transactions of NASA-UCLA Symposium on "The Transformation of Knowledge and its Utilization"	M. T. O'Shaughnessy	7/64	U
Polymers in Missiles and Space	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	M. T. O'Shaughnessy	8/64	U
Transfer of Technology in Reinforced Plastics	(2) Reinforced Plastics-Principles and Applications, UCLA	M. T. O'Shaughnessy	12/64	U
The Flow Past Slender Delta Wings with Secondary Vortex Simulation	(1) AIAA Journal	B. Pershing	12/64	U
Construction and Calibration Techniques of High Frequency Magnetic Probes	(1) Review of Scientific Instruments	R. C. Phillips, E. B. Turner	12/64	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
An Experimental Study of Turbulence Levels in Jet-driven Vortex Chambers	(1) and (2) Symposium on Concentrated Vortex Motions in Fluids and Proceedings	D. H. Ross	7/64	U
Modified Version of Studies Relative to Rendezvous Between Circular Orbits	(1) Astronautica Acta	H. L. Roth, B. H. Billik	12/64	U
Boundary Layers in Rotating Flows	(1) Proceedings of Eleventh International Congress of Applied Mechanics (2) Eleventh International Congress of Applied Mechanics	N. Rott, W. S. Lewellen	8/64	U
Examples of Boundary Layers in Rotating Flows	(1) and (2) Recent Developments in Boundary Layer Research	N. Rott, W. S. Lewellen	2/65	U
Longitudinal Instability of Liquid Rockets Due to Propulsion Feedback (POGO)	(1) and (2) AIAA Symposium on Structural Dynamics and Aerolasticity and Proceedings	S. Rubin	6/65	U
On the Use of Eight-Pole Parameters for the Analysis of Beam Systems	(1) and (2) SAE National Aeronautic and Space Engineering and Manufacturing Meeting and Transactions	S. Rubin	9/64	U
Line Breadth Study of the 1.64 Millimeter Absorption in Water Vapor	(1) Journal of Chemical Physics	J. R. Rusk	9/64	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Temperature and Zeeman Measurements on the 1.64 mm H <sub>2</sub> O Absorption Line	(1) Journal of Chemical Physics	J. R. Rusk	5/65	U
On the Structure of a Radiation-Resisted Shock in a Simple Dissociating Gas	(1) Physics of Fluids (2) American Physical Society Meeting	I. L. Ryhming	7/64	U
Radiative Transfer Between Two Concentric Spheres Separated by an Absorbing and Emitting Gas	(1) International Journal of Heat and Mass Transfer (2) Workshop on Radiative Transfer	I. L. Ryhming	2/65	U
Weak Radiation from a Hypersonic Shock	(1) AIAA Journal	I. L. Ryhming	2/65	U
Solar Boresighting of S-Band Antennas	(2) 1965 International Space Electronics Symposium	W. A. Sandberg	6/65	U
A Simulation Language and Its Use with Analyst-Oriented Consoles	(1) Technical Journal of Simulation Councils, Inc. (2) Fall Joint Computer Conference	L. Sashkin, S. Schlesinger	6/65	U
The Method of Characteristics for the Three-Dimensional Unsteady Magnetofluid Dynamics of a Multicomponent Medium	(1) Journal of Fluid Mechanics	H. Sauerwein	4/65	U
On the Method of Character- istics in Two-Phase Flow	(1) The Physics of Fluids	H. Sauerwein, F. E. Fendell	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Mercury-Photosensitized Isomerization of Perfluorobutene-2	(1) Journal of Chemical Physics	D. Saunders, J. Heicklen	5/65	U
The Reaction of Oxygen Atoms with $C_2F_4$	(1) Journal of American Chemical Society	D. Saunders, J. Heicklen	12/64	U
The Reaction of Oxygen Atoms with Perfluoropropene	(1) Journal of America Chemical Society	D. Saunders, J. Heicklen	3/65	U
A Runge-Kutta Integration Procedure with Automatic Interval Control	(1) Communications of the ACM/Association for Computing Machinery	S. Schlesinger, L. Sashkin	12/64	U
A Photoelectric Atlas of the Hydrogen Emission Spectrum from 1025 to 1650 Å at a Resolution 0. 10 Å	(1) Journal of Applied Optics	K. E. Schubert, R. D. Hudson	3/65	U
A Nonlinear Programming Procedure	(2) AIAA Second Aerospace Sciences Meeting	R. Schubert, J. Gibson	10/64	U
On the Free Vibrations of Simply Supported Truncated Conical Shells	(1) and (2) Seventh Israel Annual Conference on Aviation and Astronautics	P. Seide	12/64	U
A Comparison of Key Parameters of Three CW Ranging Systems	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	A. H. Shapiro, H. R. Anderson	7/64	U
A Comparison of Dissociation in Vapors and Permanent Gases	(1) Journal of Chemical Physics	B. Siegel	11/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Bonds Strengths	(1) <u>Encyclopedia of Chemistry, Second Edition</u>	B. Siegel	2/65	U
Homonuclear Gases	(1) <u>Encyclopedia of Chemistry, Second Edition</u>	B. Siegel	2/65	U
Hydrides	(1) <u>Encyclopedia of Chemistry</u>	B. Siegel	3/65	U
Vapors of the Elements (A Review of Unclassified Literature)	(1) Quarterly Reviews	B. Siegel	2/65	U
An EPR Study of the Bi- phonic Nature of the Solute Sensitized Photo- decomposition of Poly- dimethyl-siloxane	(1) Journal of Chemical Physics	S. Siegel, H. Judeikis	3/65	U
Radical-Matrix Interactions in Low Temperature Glasses: Photo- Reversibility	(1) Journal of Chemical Physics	S. Siegel, H. S. Judeikis	7/64	U
The Effect of Oxygen on the Decay Constants from Triplet States: An EPR Study	(1) Journal of Chemical Physics	S. Siegel, H. S. Judeikis	5/65	U
The Method of "Magneto- Photoselection: of the Lowest Excited Triplet State of Aromatic Molecules	(1) Journal of Chemical Physics	S. Siegel	6/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
RF Telemetry Systems	(1) Microwave Journal	F. T. Sinnott	4/65	U
The Distribution and Frequency Dependence of Unintentionally Generated Man-Made VHF/UHF Noise in Metropolitan Areas	(1) Transactions IEEE Electromagnetic Compatibility	E. N. Skomal	12/64	U
Theory of the Frequency and Range Dependence of Unintentionally Generated Man-Made UHF/UHF Noise in Metropolitan Areas	(1) Transactions of IEEE on Electromagnetic Compatibility	E. N. Skomal	5/65	U
Radiation Patterns from a Slotted Cylinder Surrounded by a Plasma Sheath	(1) Transactions of the IEEE (PGAP)	T. M. Smith	9/64	U
The Titan III Shock Environment Problem	(1) Society of Automotive Engineers (SAE)	W. G. Spalthoff	4/65	U
Image Motion and Resolution for Satellite-to-Satellite Photography	(1) and (2) SPIE - Ninth Annual Technical Symposium and Transactions	I. J. Spiro	7/64	U
Meeting Report of the Society of Photo-Optical Instrumentation Engineers Ninth Annual Symposium	(1) Applied Optics	I. J. Spiro	11/64	U
Lunar Eclipse Observations at 3.2 mm with a 2.9 Arc Minute Beamwidth Antenna	(1) IEEE Proceedings	J. M. Stacey, E. Jacobs, H. E. King	9/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Radiometric Mapping of the Moon at 3 Millimeters	(1) Astronomical Journal	J. M. Stacey, B. Gary, F. Drake	3/65	U
Stagnation Point Langmuir Probe Measurements in a Supersonic Argon Plasma Flow	(1) AIAA Journal (2) AIAA Meeting	K. E. Starner	1/65	U
Five- and Ten-Year Fore- cast for Space Tracking, Telemetry, and Command Systems	(1) and (2) Ninth Sympo- sium on Ballistic Missile and Space Technology and Transactions	R. G. Stephenson	8/64	S
Radiation from a Line Source in a Ground Plane Covered by a Warm Plasma Slab	(1) Transactions of the IEEE	G. E. Stewart, P. R. Caron	10/64	U
Creep of Niobium at Low Temperatures	(1) Acta Metallurgica	G. A. Stone, H. Conrad	1/65	U
Two Point Boundary Prob- lems by Quasilinearization	(1) SIAM Journal	R. J. Sylvester, F. Meyer	7/64	U
3-Amino-s-Tetrazines from the Thermal Decomposition of 4-Amino-3-Azido-s- Triazoles	(1) Journal of American Chemical Society	H. H. Takimoto, G. C. Denault	3/65	U
Syntheses and Reactions of 3-Hydrazino-4-amino-5- alkyl-1, 2, 4-triazoles	(1) Journal of Organic Chemistry	H. H. Takimoto, G. C. Denault, S. Hotta	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
On the Landau Solution of the Plasma Oscillation Problem	(1) The Physics of Fluids	E. C. Taylor	6/65	U
Radiation from a Fully Ionized Gas at the Plasma Frequency	(1) and (2) American Institute of Physics	E. C. Taylor	10/64	U
Transmission and Reflection of Electromagnetic Waves by a Hot Plasma	(1) Radio Science Journal	E. C. Taylor	11/64	J
Catalytic Probe Response to High Atom Flux in a Glow Discharge Shock Tube	(1) AIAA Journal	W. P. Thompson, R. A. Hartunian	1/65	U
Validation of the Solutions of the Variational Equations as Employed in a Computer Program Designed for General Purpose Satellite Tracking	(1) and (2) AFIPS-Joint Computer Conference and Proceedings	P. C. Tiffany	6/65	U
Optical Absorption and Photoconductivity in the Band Edge of $\beta\text{-Ga}_2\text{O}_3$	(2) American Physical Society	H. H. Tippins	11/64	U
Optical Absorption and Photoconductivity in the Band Edge of $\beta\text{-Ga}_2\text{O}_3$	(1) Physical Review Letters	H. H. Tippins	3/65	U
Advanced Internal Insulation Materials for Solid Propellant Rocket Motors and Their Effect on Missile Performance	(1) AIAA Journal	C. Toscano, V. F. Hribar	11/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
An Isoperimetric Sloshing Problem	(1) Communications on Pure and Applied Mechanics	B. A. Troesch	9/64	U
"Spectroscopy III - Experimental Techniques, Chapter 7	(1) Book, <u>Plasma Diagnostic Techniques</u>	E. B. Turner	4/65	U
The Implications of JANAF Data in New Computer Programming	(1) Proceedings of Third Meeting of Working Group on Thermochemistry	H. J. Vale	5/65	U
Anatomy of an Accident in Cryogenic Systems	(2) 56th Air Force/Industry Safety Conference	R. W. Vance, E. I. Shain	2/65	U
Contamination Control in Liquid Helium and Nitrogen Systems	(1) Journal of American Association for Contamination Control	R. W. Vance	7/64	U
Cryogenic Technology: A Two Part State-of-the-Art Survey	(1) Machine Design	R. W. Vance	7/64	U
Some Chemical and Physical Characteristics of Cryogenic Propellants	(2) Air Force Missile Liquid Propellants Symposium	R. W. Vance	10/64	U
A Shock Tube for Producing Transonic and Supersonic Flows for Aerodynamic Testing	(2) Fifth Shock Tube Symposium	R. L. Varwig, L. Rosenman	4/65	U
Piston Motion and Shock Wave Formation in a Free-Piston Cycle	(1) AIAA Journal	J. Vasilu	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Particle Radiation Monitoring Satellite	(1) For Public Release to Radio and Press	R. E. Vassau	11/64	U
Excess Superconductive Tunneling Current Generated by Transverse Microwave Phonons	(2) American Physical Society Meeting	F. L. Vernon, E. Lax	6/65	U
Microwave Phonon Assisted Tunneling in Superconductors	(2) American Physical Society Meeting	F. L. Vernon, E. Lax	12/64	U
Motion of Re-entry Vehicles During Constant-Altitude Glide	(1) AIAA - Technical Note	H. Wang	5/65	U
Satellite Tracking Antenna Output Evaluation	(1) and (2) IEEE International Symposium on Antennas and Propagation and Symposium Digest	C. W. Watson	5/65	U
Experimental Investigation of the Stability of Internally Pressurized Conical Shells Under Torsion	(1) AIAA Journal	V. I. Weingarten	8/64	U
Investigation of the Dynamic Stability of a Rod	(1) AIAA Journal	V. I. Weingarten	8/64	U
Least Squares Approxima- tions Utilizing Orthogonal Polynomials in Several Real Variables	(2) SIAM Meeting	M. Weisfeld	7/64	U



Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Combat Models and His- torical Data: The U. S. Civil War	(1) Proceedings of MORS and/or Operations Re- search Journal (2) Fourteenth Military Operations Research Symposium	H. K. Weiss	7/64	U
How Much Does Research and Development Influence the Growth of the National Economy?	(1) Industrial Research	H. K. Weiss	2/65	U
Military Space Programs - Validation, Selection, and Optimization	(2) Tenth Annual Meeting of Western Section, Opera- tions Research Society of America	E. T. Welmers	9/64	U
Research and Technology Balance in Systems Development	(2) 12th Annual Joint Western Regional TIMS-ORSA Meeting	E. T. Welmers	4/65	U
A Problem in Spectral Filtering	(1) Applied Optics	H. W. Wessely	9/64	U
Results of a Simulation Study to Determine the Effectiveness of a Two- Color Background Dis- crimination Technique	(1) and (2) IRIS Electro- Optical Information Pro- cessing Specialty Group and Proceedings of IRIS	H. W. Wessely	2/65	C
Alloy and Dispersion Strengthening by Power Metallurgy	(1) Journal of Metals	J. E. White	5/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	P blication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
A Metallurgical Evaluation of Various Infiltrated Tungsten Materials in Air and Nitrogen Plasmas	(1) Journal of American Ceramic Society	J. E. White, D. H. Leeds	3/65	U
Development of Oxidation Resistant Tungsten Base Alloys	(1) and (2) AIAA Sixth Structures and Materials Conference	J. E. White	2/65	U
The Stability of Selected Oxides, Nitrides, and Borides in Molybdenum to 4000 °F	(1) American Society for Metals	J. E. White	7/64	U
The Stability of Selected Oxides, Nitrides, and Borides in Molybdenum to 4000 °F	(1) Powder Metallurgy	J. E. White	9/64	U
Nuclear Magnetic Resonance Studies on the Hindered Rotation in Dimethylformamide Solvent Effect	(1) Journal of Chemical Physics	A. G. Whittaker, S. Siegel	10/64	U
Nuclear Magnetic Resonance Studies of Solvent Effects on the Hindered Internal Rotation in N, N-Di-substituted Amides. II. Higher AlkylAmides	(1) Journal of Chemical Physics	A. G. Whittaker, S. Siegel	5/65	U
A Note on Wave Propagation in a Nonhomogeneous Bar	(1) Journal of Applied Mechanics	J. S. Whittier	4/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Macroscopic Interface Shape During Solidification	(1) Journal of Applied Physics	W. R. Wilcox, R. L. Duty	7/64	U
Macroscopic Interface Shape During Solidification	(1) Philosophical Magazine	W. R. Wilcox, R. L. Duty	10/64	U
Melting Point Techniques for Milligram Quantities of Volatile Mixtures	(1) Review of Scientific Instruments	W. R. Wilcox	2/65	U
Some Factors Affecting the Growth and Properties of $\text{KTaO}_3$ - $\text{KNbO}_3$ Mixed Crystals	(1) Journal of American Ceramic Society	W. R. Wilcox	5/65	U
Turbulent Free Convection in Czochralski Crystal Growth	(1) Journal of Applied Physics (2) American Physical Society Meeting	W. R. Wilcox	9/64	U
Requirements and Missions Panel Report AACB - SSR T National	(2) Aeronautics and Astronautics Coordinating Committee, National Space Power Program Study Panel	D. Willens	9/64	S
Predicting Escalation Trends	(2) American Association of Cost Engineers Journal	J. D. Wilson	5/65	U
Digitally Controlled Receiver	(1) IEEE Transactions on Military Electronics	R. G. Wilson	6/65	U

Section VI. PROFESSIONAL PAPERS (Continued)

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Data for $\text{LaTaO}_4$ and $\text{PrTaO}_4$ , a New Structure Type, and a series of new compounds with the $\text{PbNb}_2\text{O}_6$ Structure, of Composition $\text{K}_{0.5}\text{RE}_{0.5}\text{Ta}_2\text{O}_6$ , where RE is a Rare Earth	(1) Inorganic Chemistry (2) Am. Crystallographic Assn. Meeting	G. M. Wolten	6/65	U
Martensite Transformations	(1) <u>Encyclopedia of Chemistry, Second Edition</u>	G. M. Wolten	3/65	U
General Review of Satellite Inspection Program	(1) and (2) Ninth Symposium on Ballistic Missile and Space Technology and Transactions	W. L. Woodson	7/64	S
The Use of Operations Research Models in Archaeology	(2) Operations Research Society of America Meeting	R. P. Zieke	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Application of Optimal Control Techniques to the Space Guidance Problem	(1) and (2) Fifth Inter- national Symposium on Space Technology and Science	J. A. Aseltine	8/63	U
Capacitance-Voltage Dependence of Zinc-Diffused GaAs p-n Junctions	(1) Solid State Electronics	L. W. Aukerman, D. F. Kyser, M. F. Millea	7/64	U
The Role of Diffusion Current in the Electroluminescence of GaAs Diodes	(1) Bulletin of the American Physical Society	L. W. Aukerman, M. F. Millea	9/64	U
A Measure of the Intricacy of Turbulence	(1) Physics of Fluids	R. Betchov	3/63	U
On the Oscillations of a Turbulent Flow	(1) The Physics of Fluids	R. Betchov, W. Grimalde	11/63	U
Modulation of the Reflectivity of Semiconductors	(1) Applied Physics Letters	M. Birnbaum	7/64	U
Power-dependent Frequency Shifts in Ruby Lasers at 77°K	(1) American Physical Society	M. Birnbaum, T. L. Stocker	3/64	U
Stability Properties of Adams-Moulton Type Methods	(1) Journal of the Associa- tion for Computing Machinery	R. R. Brown, J. D. Riley, M. M. Bennett	12/63	U
Dynamic Atmospheric Effects Upon Satellite Motion and Satellite Lifetime	(1) AIAA Journal	R. W. Bruce	5/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
The Microplastic Behavior of Polycrystalline Nickel	(1) The Philosophical Magazine	R. D. Carnahan, J. E. White	1/64	U
Spectra and Energy Levels of $\text{Eu}^{3+}$ in $\text{Y}_2\text{O}_3$	(1) Journal of Chemical Physics	N. C. Chang, J. B. Gruber	6/64	U
Synthesis of $\beta\text{-Ga}_2\text{O}_3$ by the Verneuil Technique	(1) Journal of the American Ceramic Society	A. B. Chase	1/64	U
Generalized Rational Approximation	(1) Journal of Mathematical Analysis and Application	E. W. Cheney, H. L. Loeb	6/63	U
Landing Site Coverage for Orbital Lifting Re-entry Vehicles	(1) AIAA Journal	S. T. Chu, R. G. Stern	9/63	U
Weakly Ionized Nonequilibrium Viscous Shock Layer and Electrostatic Probe Characteristics	(1) AIAA Journal	P. M. Chung	8/64	U
The Effect of Stress on the Lüders Band Velocity in Niobium	(1) Journal of the Mechan- ics and Physics of Solids	H. Conrad, G. A. Stone	11/63	U
Absorption and Photoioniza- tion of Some Atmospheric Gases in the 600 to 1000 Angstrom Range	(1) Faraday Society Publi- cation	G. R. Cook, B. K. Ching, R. A. Becker	1/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Photoionization and Absorption Cross Sections of $H_2$ and $D_2$ in the Vacuum Ultraviolet Region	(1) and (2) Journal of Optical Society of America and Meeting	G. R. Cook, P. H. Metzger	9/63	U
Photoionization of $N_2$ in the 734-805 Å Region	(1) Canadian Journal of Physics	G. R. Cook, M. Ogawa	10/64	U
The Photoionization and Absorption Cross-Section of $O_2$ and $N_2$ in the 600 to 1000 Å Region	(1) Journal of Chemical Physics	G. R. Cook, P. H. Metzger	7/63	U
Cyclotron Instabilities and Electromagnetic Emission in the ULF and VLF Ranges	(1) Journal of Geophysical Research	J. M. Cornwall	9/64	U
Fundamental Accuracy Limitations for Pilot-Tone Time-Base Correction	(1) Proceedings of IEEE	J. A. Develet	4/64	U
Performance of a Synthetic-Aperture Mapping Radar System	(1) and (2) Tenth Annual Radar Symposium	J. A. Develet	2/64	U
The Influence of Random Phase Errors on the Edge Response of Synthetic-Aperture Mapping Radar Systems	(1) Proceedings of IEEE	J. A. Develet	5/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Energy Transfer Processes in a Partially Ionized, Two- Temperature Gas	(1) Proceedings of AIAA Aerospace Sciences Meeting	D. M. Dix	1/64	U
Direct Interpretation of Far Infrared Interferograms with Application to Diatomic and Linear Molecules	(1) Journal of the Optical Society of America	J. M. Dowling	11/63	U
Intrinsic Photoemission of Alkali Halides	(1) Physical Review	S. W. Duckett, P. H. Metzger	10/63	U
Atomic Hydrogen in Galaxies	(1) Astronomical Journal	E. E. Epstein	8/63	U
On Relative Rates of Star Formation in Galaxies	(1) The Observatory	E. E. Epstein	12/63	U
Preliminary Investigations of Model Distributions of Atomic Hydrogen in Galaxies	(1) Astronomical Journal	E. E. Epstein	8/63	U
3. 2-mm Observations of the Lunar Eclipse of 30 December 1963	(1) American Astronomical Society Journal	E. E. Epstein, J. M. Stacey	6/64	U
Combustion in Initially Unmixed Reactants for One-Step Reversible Chemical Kinetics	(1) Heat Transfer and Fluid Mechanics Institute	F. E. Fendell, P. M. Chung	3/65	U
Combustion of Initially Unmixed Reactants	(1) Journal of Fluid Mechanics	F. E. Fendell	9/64	U



# Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
A Device for Rapid, Low-Loss Pouring of Liquid Gases from Pressure Cylinders	(1) Review of Scientific Instruments	S. Feuerstein	5/64	U
A Magnetohydrodynamic Flow Angle Indicator	(1) Review of Scientific Instruments	A. E. Fuhs, O. L. Gibb	1/63	U
Study of Fluctuations in an Arc Plasmajet Using Electromagnetic Induction	(1) AIAA Journal	A. E. Fuhs	5/64	U
Thermal Ionization and Electronegative Species	(2) Fall Meeting of the Western States Section of the Combustion Institute	A. E. Fuhs	12/62	U
Zero Angle of Attack Sensor	(1) AIAA Journal	A. E. Fuhs	4/64	U
Radiation Patterns of a Slot Covered by a Simulated Plasma Sheet	(1) 1964 PTG-AP International Symposium (IEEE)	K. E. Golden, T. M. Smith	3/64	U
A Steepest-Ascent Solution of Multiple-Arc Optimization Problems	(1) AIAA Journal	R. G. Graham	12/63	U
Comparison of Fokker-Planck and Bhatnagar-Gross-Krook Equations	(1) Physical Review	M. S. Grewal	6/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Influence of Tesseral Harmonics on Nearly Circular Polar and Equatorial Orbits	(1) AIAA Journal	P. T. Guttman	1/64	U
In-Place Calibrator for Pressure Transducers	(1) Review of Scientific Instruments	J. A. Hanna	8/64	U
Light Diffraction Patterns	(1) Applied Optics	F. S. Harris	6/64	U
The Infrared Spectra of Perfluorocyclopropane and cis- and trans-Perfluoro- butene-2	(1) Journal of Physical Chemistry	J. Heicklen, V. Knight, F. Wachi	9/64	U
The Infrared Spectrum of SiF <sub>4</sub>	(1) Spectrochimica Acta	J. Heicklen, V. Knight	12/63	U
The Photolysis and Pyrolysis of 4-Methyl-4-Methoxy-2- Pentanone	(1) Journal of American Chemical Society	J. Heicklen, D. J. Coyle, R. V. Peterson	1/64	U
The Photolysis of Nitric Oxide	(1) Journal of Chemical Physics	J. Heicklen, J. J. McGee	7/64	U
The Photolysis of Nitric Oxide in the Presence of Olefins	(1) Journal of Chemical Physics	J. Heicklen, J. J. McGee	6/64	U
The Photolysis of Phosgene- Ethylene Mixtures	(1) Journal of American Chemical Society	J. Heicklen	9/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
The Photo-Oxidation of Methyl Iodide	(1) Journal of Chemical Physics	J. Heicklen	9/64	U
The Numerical Solution of Nonlinear Two-Point Boundary Problems by Finite Difference Methods	(1) Communications of the Association for Computing Machinery	J. F. Holt	2/64	U
The Atomic Absorption Cross Section of Lithium Vapor Between 2300 and 1150 Å	(1) Physical Review	R. D. Hudson, V. L. Carter	10/64	U
Highly Nonequilibrium Boundary Layer Flows of a Multicomponent Dissociated Gas Mixture	(1) International Journal of Heat and Mass Transfer	G. R. Inger	3/64	U
2.8 Minute Beamwidth, Millimeter Wave Antenna-Measurement and Evaluation	(1) IEEE Record	E. Jacobs, H. E. King	12/64	U
A Semi-Quantitative Prediction of the Erosion of Graphite Nozzle Inserts	(1) AIAA Journal (2) AIAA Solid Propellant Rocket Conference	W. H. Jones, L. J. Delaney, L. C. Eagleton	12/63	U
Theory of a Class of Discrete Optimal Control Systems	(1) Journal of Electronics and Control	B. W. Jordan	4/64	U
Errors in the Evaluation of Moments of a Paramagnetic Resonance Line	(1) Journal of Applied Physics	H. S. Judeikis	4/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Nonequilibrium Sodium Ioniza- tion in Laminar Boundary Layers	(1) AIAA Journal	J. J. Kane	6/64	U
Comment on "Elliptic Elements in Terms of Small Increments of Position and Velocity Com- ponents" and Generalization of the Solutions for an Arbitrary Initial Point	(1) AIAA Journal	H. K. Karrenberg	10/64	U
Improved Metallography for TiC and TiC-C Alloys	(1) American Society Metals	E. G. Kendall, C. Hays	2/64	U
Non-Metallic Materials for High Temperature Structural Applications	(1) Proceedings of American Society for Testing and Materials Meeting	E. G. Kendall, J. D. McClelland	3/64	U
Boundary-Layer for Rotating Flows	(1) Physics of Fluids	W. S. King, W. S. Lewellen	9/63	U
Exchange Interactions Between Chromium Ions in Ruby	(1) Journal of Applied Physics	P. Kisluk, W. F. Krupke	8/64	U
The Spectrum of $\text{Er}^{3+}$ in Single Crystals of $\text{Y}_2\text{O}_3$	(1) Journal of Chemical Physics	P. Kisluk, W. F. Krupke, J. B. Gruber	2/64	U
Etching of GaAs with Nitric Acid	(1) Technical Note in Journal of the Electro- chemical Society	D. Kyser, M. Millea	12/63	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Microwave Phonon-Assisted Tunneling in Superconductors	(1) Journal of American Physical Society	E. Lax. F. L. Vernon	12/64	U
Behavior of the Magnetization and Transport Current in NbZr Wire	(1) Physics Letters	M. A. R. LeBlanc	8/63	U
Aerodynamics, Guidance and Control, 1964 Conference Review	(1) AIAA Journal	E. Levin	10/64	U
Responses to Questions Put in the Cost-Effectiveness Panel	(1) and (2) Aerospace Reliability and Maintainability Conference	L. Levy	4/64	U
Linearized Vortex Flows	(1) The Physics of Fluids	W.S. Lewellen	3/64	U
Small Disturbance Phenomena in Rarefied Gas Fields	(1) AIAA Journal	J.G. Logan	7/63	U
Invertible Boolean Functions	(1) IEEE-TEC Electronic Computer Transactions	C. S. Lorens	8/63	U
Military and Commercial Aspects of Communication Satellite System Design	(2) AIAA Annual Meeting	N. MacGregor, W. L. Pritchard	6/64	U
Electron Current Through Thin Mica Films	(1) Physical Review	M. McCall	7/64	U
Observations of Interaction Between Hydromagnetic Wave and Electrical Current	(1) Physical Review Letters	D. A. McPherson	7/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Calculation of Gravitational Force Components	(1) AIAA Journal	R. J. Mercer	2/64	U
Flux Distribution of the Hopfield He Continuum	(1) Transactions of American Physical Society	P. H. Metzger, G. R. Cook	8/63	U
On the Continuous Absorp- tion, Photoionization and Fluorescence of $H_2O$ , $NH_3$ , $CH_4$ , $C_2H_2$ , $C_2H_4$ , and $C_2H_6$ in the 600 to 1000 Å Region	(1) Journal of Chemical Physics	P. H. Metzger, G. R. Cook	8/63	U
The Thermal Decomposition of Gallium Arsenide	(1) Journal of Applied Physics	M. F. Millea, D. F. Kyser	12/63	U
Launch Windows for Orbital Missions	(1) AIAA Journal (2) AIAA Summer Meeting	A. H. Milstead	2/64	U
Location of Catch-Up Point Between a $\Delta V$ Perturbed Orbit and the Original Circular Orbit	(1) AIAA Journal	A. H. Milstead	12/63	U
Minimum Length MHD Accelerator with Constant Enthalpy and Magnetic Field	(1) AIAA Journal	H. Mirels, R. R. Gold, J. F. Mullen	12/63	U
Small Perturbation Theory for Shock Tube Attenuation and Non-Uniformity	(1) Physics of Fluids	H. Mirels, J. F. Mullen	10/63	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classification
Optimization: A Moment Problem, and Nonlinear Programming	(1) Journal of Society for Industrial and Applied Mathematics, Series A on Control	L. W. Neustadt	12/63	U
On the Effect of Azimuth on the Accuracy of an Interferometer Radar	(1) IEEE Transactions	C. W. Pittman	6/64	U
Optimum Impulses for Gravity-Free Rocket Motion	(1) ALAA Journal	C. M. Price	7/63	U
The Radiation Field of a Magnetic Dipole Antenna in a Conical Sheath	(1) IEEE Transactions on Antenna and Wave Propagation	D. C. Pridmore-Brown	1/64	U
Criteria for the Choice of Synchronous or Medium Altitude System	(1) Proceedings of XIV International Astronautical Federation Congress	W. L. Pritchard	9/63	U
New Technique for Measurement of Electron Diffraction Patterns of Polycrystalline Materials	(1) Journal of Applied Physics (2) 21st Annual Meeting of Electron Microscope Society of America	J. H. Richardson	8/63	U
Longitudinal Optical Phonons in $\text{CaF}_2$ , $\text{SrF}_2$ and $\text{BaF}_2$	(1) Journal of Chemical Physics	I. Richman	6/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Radar Resolution Prop- erties of Pulse Trains	(1) Proceedings of the IEEE	A. W. Rihaczek	6/63	U
Radar Signal Design for Target Resolution	(1) Proceedings of IEEE	A. W. Rihaczek	3/64	U
Range Accuracy of Chirp Signals	(1) Proceedings of IEEE	A. W. Rihaczek	12/64	U
On the Flutter of Multi-Bay Panels at Supersonic Speeds	(1) AIAA Journal	W. P. Rodden	4/64	U
Confined Vortex Flows with Boundary-Layer Interaction	(1) AIAA Journal	M. L. Rosenzweig, W. S. Lewellen, D. H. Ross	1/64	U
Line Breadth Study of the 1.64 Millimeter Absorption in Water Vapor	(1) Journal of Chemical Physics	J. R. Rusk	9/64	U
Aluminum Oxychloride	(1) Journal of American Chemical Society	B. Siegel, R. L. Johnson	3/64	U
Aluminum Oxyfluoride	(1) Nature	B. Siegel, R. L. Johnson	8/64	U
Gaseous Alane and Dialane	(1) Journal of American Chemical Society	B. Siegel, P. Breisacher	9/64	U
Influence of Resonance Transfer on Luminescence Decay	(1) Journal of Chemical Physics	S. Siegel, K. B. Eisenthal	5/63	U



Section VI. PROFESSIONAL PAPERS (Continued)

Reprints are Now Available for the Following:

Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Triplet-Triplet Absorption in Sensitized Solvent Decomposition	(1) Journal of Chemical Physics	S. Siegel, K. Eisenthal	6/64	U
Triplet-Triplet Energy Transfer in Rigid Glasses: Lack of a Solvent Effect	(1) Journal of Chemical Physics	S. Siegel, H. Judeikis	10/63	U
Atmospheric Transmission, Concepts, Units and Nomenclature	(1) Proceedings of 14th National Infrared Informa- tion Symposium	I. J. Spiro	6/64	U
Electron Bombardment Heating for Electro- thermal Propulsion	(1) AIAA Journal	K. E. Starner, W. R. Grabowsky	3/64	U
Synthesis and Reactions of 2, 6-Dimethyl-7, 7-Dicyanoquinonemethide	(1) Journal of Organic Chemistry	H. H. Takimoto, G. C. Denault, L. O. Krbecek	9/63	U
Synthesis and Reactions of 5-Alkyl-4-Amino-3-Hydrazino- s-Triazoles	(1) Journal of Organic Chemistry	H. H. Takimoto, G. C. Denault, S. Hotta	7/64	U
Catalytic Probe Response to a High Atom Flux in a Glow Discharge Shock Tube	(1) AIAA Journal	W. P. Thompson, R. A. Hartunian	1/65	U
Optical and Microwave Properties of Trivalent Chromium in $\beta$ -Ga <sub>2</sub> O <sub>3</sub>	(1) Physical Review	H. H. Tjippins	5/64	U

Section VI. PROFESSIONAL PAPERS (Continued)

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Title of Paper	Publication (1) and/or Presentation (2)	Author	Date Cleared	Classi- fication
Large Displacement Analysis of Buckling of Axially Com- pressed Circular Cylindrical Shells	(1) AIAA Journal	C. H. Tsao	4/64	U
Strain-Displacement Relations in Large Displacement Theory of Shells	(1) AIAA Publication	C. H. Tsao	6/64	U
Stress Concentration Factors for Semielliptical Notches in Beams under Pure Bending	(1) Proceedings of Society for Experimental Stress Analysis	C. H. Tsao, A. Ching, S. Okubo	12/63	U
Effects of Various Re-entry Vehicle Parameters on RF Attenuation	(1) AIAA Journal	F. A. Vincente	2/64	U
A Problem in Spectral Filtering	(1) Applied Optics	H. W. Wessely	9/64	U
A Refractory Metal Alloy Hot Pressed from Elemental Powders	(1) Trans-American Society for Metals	J. E. White	5/64	U
Study of Dispersion Strengthen- ing in TD-Nickel	(1) Transactions of AIME	J. E. White	1/64	U
Artificially Injected Electrons at Low Altitudes	(1) Journal of Geophysical Research	R. S. White, J. Mihalov, F. S. Mozer	8/63	U

Section VI. PROFESSIONAL PAPERS (Continued)

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Fractional Solidification of Eutectic-Forming Mixtures	(1) Journal of Applied Physics (2) American Physical Society Meeting	W. R. Wilcox	10/63	U
Gold in Silicon: Effect on Resistivity and Diffusion in Heavily-Doped Layers	(1) Journal of Electro- chemical Society	W. R. Wilcox, T. J. LaChapelle, D. H. Forbes	4/64	U
Competitive Reaction Rates of Hydrogen Atoms with HCl and Cl <sub>2</sub>	(1) Journal of Chemical Physics	R. L. Wilkins	5/63	U
Continuous Absorption Coefficients of Chlorine	(1) Journal of Chemical Physics	R. L. Wilkins	10/63	U
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